

# AMERICAN NURSERYMAN

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

JULY 1, 1947

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# AMERICAN NURSERYMAN

[Registered U. S. Patent Office]

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

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### LAST CALL FOR THE A.A.N. PRE-CONVENTION ISSUE—OUT JULY 15.

Send your advertising copy to reach this office by June 30.

#### Report of A.A.N. Convention in August 1 Issue.

Full report of the doings at the convention of the American Association of Nurserymen, at Boston, July 21 to 24, will appear in the August 1 issue of the American Nurseryman. The convention story will be read with close interest by those who remain home, hence the issue will be of particular advertising value.

Closing date for the **August 1** issue will be **Friday, July 18.**

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# AMERICAN NURSERYMAN

F. R. KILNER, Editor

## Editorial

### SPRING REPORTS.

The reports about spring business in this and the preceding issue reveal that the wholesale shippers of nursery stock fared better than was expected in view of the unfavorable weather the past season. In spite of frequent rains that delayed digging, shipments attained a record volume in many cases. The continued cool weather was a favorable accompaniment, permitting digging and planting over a longer period than normally.

The favorable tenor of the reports printed here has received support from early figures from the headquarters office of the American Association of Nurserymen. By June 1 dues had been remitted by 364 members, and on the basis of their returns the over-all dollar volume of business for the past year showed an increase of 21.1 per cent. The number of the early returns and the extent of their gains would indicate a quite favorable over-all picture, even if the members who remit dues later report a less successful year.

Retail reports are likely to prove less uniformly favorable, because of the vagaries of the weather. Since the operations of the retailers, both landscape planters and cash-and-carry nurserymen, continued later this season, reports from that branch of the trade will appear in the next issue. To be sure of a representative showing, some requests have been already issued for such reports. The editor would be glad to hear from any reader.

### RESEARCH ASSESSMENT.

Economy in government would be more practical, perhaps, if there were fewer hidden taxes and assessments were brought out into the open so that taxpayers could see what their money was spent for.

In the business world those who pay the bill for any commodity or service can easily express their approval or disapproval of the price charged by either buying or withholding their purchases. But taxpayers seldom have the opportunity to state their own needs and their willingness to pay for them.

But that is the way money has been obtained for research purposes

by the nurserymen in the state of Oregon. When the nurserymen wanted research work done at the Oregon experiment station for which no funds were available, 237 contributed to the insect pest and disease fund sponsored by the Oregon Association of Nurserymen a total of \$2,318.16.

Then the nurserymen introduced a bill in the 1947 legislature to put the fund on a statutory basis, making it compulsory instead of voluntary, so that all of the 1,500 licensed nurserymen of the state would contribute, instead of less than one-sixth of that number.

Under the new law nurserymen pay their research fund assessment at the time they pay their annual license fee. Growers of one or more acres are assessed ten per cent of their license fee plus \$1 for each acre of nursery stock grown. Nursery dealers subject to a \$10 license fee and growers subject to a \$5 license fee are assessed ten per cent of their license fee only. Growers of berry plants exclusively are excepted.

Money from the research fund assessment is expected to reach \$6,000 annually and will be expended by the Oregon experiment station at Corvallis under a memorandum of agreement with the state department of agriculture. Any experimental and research projects undertaken are to be for the purpose of improving plant disease and insect pest control and cultural methods. The selection of such projects requires agreement between the director of the experiment station and the state bureau of nursery service.

### ASIATIC ELMS CONFUSED.

Confusion still exists in the identification and proper naming of two Asiatic species of elms, *Ulmus pumila*, the Siberian elm, and *Ulmus parvifolia*, the Chinese elm. Some nursery catalogs seem to list the Chinese and Siberian elms as the same tree, while some others reverse the names of the two. The confusion of the two species is the reason that the Chinese elm is condemned by some and praised by others.

Native to northeastern Asia, *Ulmus pumila*, the Siberian elm, was sent to the United States in 1905 by Prof. J. G. Jack, of the Arnold Arboretum. Later introduced in large quantities by Frank N. Meyer, of the United States Department of Agriculture,

## The Mirror of the Trade

this species proved more popular with the public than any of the other Asiatic elms. *Ulmus pumila* was early misnamed the dwarf Asiatic elm, but the tree is anything but dwarf, being a standard tree about seventy-five feet tall. A vigorous-growing tree, *Ulmus pumila* has found much use in the drier areas of the midwest as an admirable tree for dry-soil planting or for a quick screen that may later be replaced by a more permanent one. It withstands clipping well and forms dense hedges and windbreaks when properly clipped. If unpruned, the tree becomes loose and open. Drought resistance and fast growth are its only favorable characteristics, however, for this elm is a weak-wooded tree that does not grow gracefully. It is not to be desired as a permanent specimen where other trees are available.

The true Chinese elm is *Ulmus parvifolia*, a native of northern and central China, Korea and Japan. Like the Siberian elm, it has small leaves, one to two inches long, but the leaves differ in other respects. The leaves of *Ulmus pumila* are often nearly equal at the base, many leaves showing indications of double serration. The young branches are pubescent and glabrous, and the stipules are broad. The leaves of *Ulmus parvifolia* are usually unequally rounded at the base; the young-branches are pubescent, but the stipules are linear. Unlike the Siberian elm, the Chinese elm is a small tree, usually reaching less than fifty feet in height, with thin-scaling bark and a round-topped crown. The foliage remains green until late fall, and in the south the Chinese elm is half evergreen. Its flowers are borne in the fall, whereas *Ulmus pumila* has its flowers in the spring. Like other elms, the fall foliage of both species is usually bright yellow.

An interesting observation made in the Japanese beetle areas around Philadelphia showed that where these two species were growing side by side, the beetles would practically defoliate *Ulmus pumila*, while they scarcely touched *Ulmus parvifolia*.

PAUL WILKINSON, owner of Paul's Greenhouse & Nursery, Pierre, S. D., has opened a seed and nursery store at 55 Third street, Huron, S. D. C. E. Raymond, who has had training in landscape architecture, is manager of the Huron store.

# Alabama Association Resumes Meetings

By E. W. McElwee

With 150 members present, representing seventy-four nursery and florists' firms, the third annual convention of the Alabama State Nurserymen's and Florists' Association was called to order June 9 by E. W. McElwee, associate professor of horticulture, Alabama Polytechnic Institute, Auburn. P. Davis, director of the Alabama extension service, welcomed the group to Auburn in the absence of Dr. L. N. Duncan, president of Alabama Polytechnic Institute. W. B. Paterson, Rosemont Gardens, Montgomery, responded to the welcome.

Unanimously elected to head the association for the next year were: President, L. L. Aldridge, Bessemer Floral Co., Bessemer; vice-president, Glen F. Harris, Southland Gardens, Inc., Mobile, and secretary-treasurer, Tom Dodd, Jr., Tom Dodd Nurseries, Semmes. Executive board members elected were Marvin W. Barton, Barton Nursery, Birmingham, and H. A. Demeranville, Demeranville Floral Co., Mobile.

In his address, President Henry Homer Chase, Chase Nursery Co., Chase, Ala., stressed the responsibility of florists and nurserymen in maintaining better quality plants and reasonable prices to encourage a wider use of florists' and nursery products. He also pointed out the necessity of florists and nurserymen shipping B&B stock, making an all-out effort to conserve their soil through the use of cover crops, contour plowing, rotation, etc., since B&B stock removes approximately one inch of soil per year. Because this was the first meeting of the association since 1941, Mr. Chase stressed the necessity for building up the association membership in order better to serve the florists and nurserymen of Alabama.

An association-sponsored bill for increasing research in ornamental horticulture at Auburn was discussed by W. B. Paterson. The association passed a resolution calling for endorsement of the bill by all Alabama florists and nurserymen.

The florists and nurserymen held separate meetings in the afternoon. A design school was held for the florists, while the nurserymen discussed problems of growing and selling nursery stock.

Richard H. Jones, Nashville, Tenn., president of the American Association of Nurserymen, opened the after-

noon session for nurserymen with an address stressing the importance of the registration of budwood for stone fruits as a protection against virus diseases. He amplified President Chase's remarks on the importance of soil conservation measures to the nurserymen, advocating the use of winter cover crops to prevent erosion and to add organic matter to soil. He pointed out that under Tennessee conditions spring oats planted in the fall made an excellent cover crop. The spring oats make good growth in the fall and are killed by freezes during the winter, and the tops and roots prevent erosion without competing with the early spring growth of the nursery stock in the ground.

President Jones stated that dues paid to the A. A. N. indicated a general fifteen to twenty per cent increase in business during 1946. He discussed the policy of the A. A. N. in assisting with local and state affairs when possible, but said that the A. A. N. was principally concerned with problems affecting the industry on a national scale. Two more topics that Mr. Jones discussed were a publicity program to build up good consumer relationships and a plan for the registration of woody plants.

Homer S. Fisher, landscape specialist of the Alabama extension service, spoke to the group on landscaping the small southern home. He particularly emphasized dividing the home site into landscape areas according to use and using a wider selection of materials in separation and border plants.

Using charts and pictures, Dr. R. W. Pearson, associate soil chemist, Alabama agricultural experiment station, discussed the fourteen elements essential to plant growth and the effect of these materials on the plants, fertilizer formulas and soils. He recommended the use of sulphur or sulphuric acid for acidifying soils. Iron sulphate was recommended in cases where a definite deficiency of iron is known.

T. D. Johnston, Dalraida Nurseries, Montgomery, kept the meeting in an uproar with his humorous but effective discussion, "Selling the Landscape Customer." Among the points stressed by Mr. Johnston as aids in selling and satisfying the landscape customer are a clean nursery, courteous attitude toward the customer and correct and practical information to the customer on plants sold. He also stressed the dividends to be derived from ethical practices



Newly elected officers of the Alabama State Nurserymen's and Florists' Association. Left to right, seated, L. L. Aldridge, president; Glen F. Harris, vice-president; left to right, standing: Marvin Barton, nurserymen's executive committeeman; Tom Dodd, Jr., secretary; H. A. Demeranville, Jr., florists' executive committeeman.

in dealing with the customer. He illustrated his talk by relating many humorous incidents connected with selling.

The banquet Monday night, attended by some 132 florists and nurserymen, was highlighted by an address by Donald Hastings, of H. G. Hastings Co., Atlanta, Ga., on "The Responsibilities of the Nurserymen and Florists." The keynote of Mr. Hastings' address was "Service is the rent we pay for the space that we occupy." He stressed the fact that price is a minor factor in selling a product. Courtesy, service rendered, knowledge of product and quality of product are more important than price. He also brought out the fact that competition is not necessarily detrimental if based on service and quality of product.

L. J. Padgett, of the United States Department of Agriculture white-fringed beetle laboratory, Gulfport, Miss., opened the joint session Tuesday morning with a discussion of the white-fringed beetle in Alabama. Mr. Padgett stated that large nursery stock was not greatly damaged by this beetle and that excellent cooperation had been received from florists and nurserymen in control measures used against this pest. Good control is secured from the use of DDT, but it is limited because areas used by livestock or areas used for producing food for human consumption cannot be treated. Control measures have been effective in restricting the spread of this pest, however.

Dean M. J. Funchess, of the Alabama agricultural experiment station, introduced the Technicolor film prepared by the experiment station, "Farm Research in Alabama," which was enthusiastically received by the group. The film was an excellent presentation of the work being done by the Alabama experiment station.

Prof. L. M. Ware, head of the department of horticulture at Alabama Polytechnic Institute, in a discussion of "Ornamental Horticulture in Alabama," emphasized the definite possibilities of the state for producing florists' and nursery stocks and compared Alabama with several other states as to soil types, climate, present income and location with reference to market. He stated that, through new methods of production, consumer costs might be lowered to the point where an average-salaried person could afford to use more ornamentals.

E. W. McElwee, associate professor of horticulture at Alabama Polytechnic Institute, followed up Professor Ware's discussion with an outline

of the results of experimental work in ornamentals at Auburn. He discussed previous work, work now in progress and projects planned for the future when facilities and personnel are available.

He also discussed briefly results of a survey by the Alabama State Nurserymen's and Florists' Association of the industry in Alabama. Only twenty-one per cent of the industry responded to the questionnaire submitted by the association, yet the incomplete survey showed a \$5,500,000 industry in Alabama as compared to the \$1,500,000 industry reported by the 1945 census. The survey showed 1,028 acres in bulbs, 1,800 acres in nursery stock and 612,000 square feet of glass within the state.

Following the discussions by Professors Ware and McElwee, J. Lloyd Abbott, chairman of the nominating committee, gave his report and recommended that the next annual meeting be held at Mobile, during the early part of June, 1948.

#### A. A. N. Meeting.

After the regular meeting of the state association, members of the A. A. N. and interested nurserymen met with President Richard Jones and organized on June 10 the Alabama chapter, chapter 22, of the A. A. N. The following officers were elected: President, John Fraser, Huntsville Wholesale Nurseries, Huntsville; vice-president, Paul Guthrie, Tuscaloosa Nursery Co., Tuscaloosa, and secretary-treasurer, Tom Dodd, Jr., Tom Dodd Nurseries, Semmes. Delegates elected for the A. A. N. convention at Boston were John Fraser, Tom Dodd, Jr., and an alternate, Marvin W. Barton. Board members elected were: One year, Henry Homer Chase, Chase Nursery Co., and alternate, L. N. Naugher, Naugher Nursery, Chase; two years, C. E. Stephens, Semmes Nursery, Semmes, and alternate, J. Lloyd Abbott, Sunny Knoll Orchard & Nursery Co., Mobile.

#### BAKER BROS. OFFICERS.

The board of directors of Baker Bros., Fort Worth, Tex., elected the following officers for the ensuing year at its annual meeting: Mrs. J. B. Baker, president; E. L. Baker, vice-president and general manager; J. B. Baker, Jr., vice-president; Mrs. Doris Baker Barnett, vice-president, and Mrs. B. Barber, secretary-treasurer.

Mrs. J. B. Baker and Mrs. Barnett are the widow and daughter of the late J. B. Baker, who founded the nursery in 1884.

## AMERICAN NURSERYMAN

### MAXWELL-BOWDEN, INC., CHANGES NAME.

Maxwell-Bowden, Inc., operating wholesale nurseries at Geneva, N. Y., has recently changed the firm name to Maxwell, Bowden & Rice, Inc. This does not involve any change in ownership or management.

Ray Rice joined the firm in 1941 as a one-third owner, but the firm name was not changed to include his name until the present time.

The other two owners are Henry Maxwell and Hort Bowden. The three men operate approximately 300 acres, on which are grown fruit trees, small fruits, shrubs, vines, shade and ornamental trees, roses and a limited quantity of evergreens.

### COVER ILLUSTRATION.

#### *Euonymus Japonicus.*

Of the many species of euonymus, some are evergreen and some deciduous. Three evergreen or semievergreen species are more or less common. These are *Euonymus fortunei* (radicans), *Euonymus kiautschovicus* (patens) and *Euonymus japonicus*. The first two species are hardy in Ohio, but *Euonymus japonicus* is only fully hardy in the southern states. It may be used with protection as far north as the Ohio river, Philadelphia and Washington, D. C.

*Euonymus japonicus*, a native of southern Japan, is often narrow and upright in its habit of growth when young, but at maturity it makes a rounded bush fifteen feet or more in height where it is hardy.

The broadly oval leaves, which are of a thick texture, dark, glossy green above and somewhat lighter beneath, are toothed and about one and one-half to two and one-half inches long. The small greenish-yellow flowers are not showy, and the pinkish-orange fruit matures only in the south.

There are several recognized varieties and clones of *Euonymus japonicus*, the evergreen euonymus. Several of these are variegated white or yellow, while others are dwarf with small leaves or narrow and pyramidal in growth habit.

The evergreen euonymus does best in sandy, well drained soil, and it will tolerate some shade. Propagation is usually by cuttings, although seeds are used.

*Euonymus japonicus*, where hardy, will be used for formal specimen plants, for hedges and to some extent for borders and foundation plantings.

L. C. C.

# Selling the Landscape Customer

By T. D. Johnston

Advertising our business by growing and selling well grown nursery stock and by rendering real service to the customer after the sale has been made has brought better returns to our retail nursery than any other method that we have ever tried. Helping the customer helps us. We have found from experience that advertising by one person to another pays wonderful dividends. But there must be reasons why people advertise for you.

Have you ever thought about the kind of people we serve? I find them to be the very best—homeowners, flower lovers and the kind that will pay their bills.

By sizing up a customer we can usually save his time, as well as ours, during the busy season. Sometimes a customer who has the usual selection of plants and has room for something unusual, but does not know just what he wants, will take up the whole afternoon making up his mind while the nursery is full of customers. But we have learned to tell this kind of customer tactfully that it would be a pleasure for us if he would look around the nursery until he was ready to be waited on. Show him where the kinds of plants are in which he is interested and tell him you will help him as soon as he has made a thorough inspection. In this way you can wait upon other customers who are in a hurry, and probably the other customer may decide on what he wants by himself.

On the other hand, if a customer has a new home and wants it landscaped in its entirety, it probably will be necessary to see the home before offering suggestions. Allow this kind of customer to talk, for often you can tell what he wants and needs by merely listening.

Unless you are certain that a customer knows all the details of planting, spraying, fertilizing, cultivation and pruning, explain them to him. It will not bore him even if he knows these things, for he is glad to know what method you use to grow such a large percentage of healthy plants. Your experience usually covers a greater number of years, and one little detail left untold can sometimes cause the customer the loss of plants.

By suggesting a more effective

planting, but not necessarily a more expensive one, created by the experience of the mind's eye and by being tactful, the nurseryman can guide his customer in selecting plants and at the same time make the customer feel that it was his own idea and planning. Just pure psychology.

Be a good listener to your customer's problems. Be sure he gets just the plant, or plants, he wants and selects, and not substitutes. Compliment a successful gardener; we all like compliments. Try to determine the cause if he is an unsuccessful gardener and make suggestions which may help him.

Love your work and like people. Our work is a beautiful one; it is not something mechanical. Watching plants grow and unfurl in due season in all their loveliness is my idea of being close to nature.

Have an attractive nursery. Keep all your plants clean—clean of insects and diseases—also free of grasses and weeds. In all cases, keep your plants correctly labeled. It is quite annoying to a customer to buy a certain variety that should have red blooms and find that it blooms pink or white. And grow the best plants possible.

If you are unable to fill an order, local or otherwise, and you know of a nursery from which the plants are obtainable, tell the customer, or order for him. Let us learn to help each other and not be jealous or selfish. Let the cutthroat business be gone forever. Let nurserymen work together, wholesalers and retailers, offering advice and suggestions for our betterment and giving us peace of mind because nothing shady has been done.

Never put anything over on a cus-

tomers because he does not know. We can use less salable or less perfect plants on the least expensive plantings, but tell the customer at the outset that they are "cheap." It is merely a case of "you got just what you paid for," and people who are looking for cheap plants will understand that they are not the best. Or if you have no market for these culls, destroy them; they will be worth more that way.

Keep abreast of the times. Try out new methods and experiments yourself before offering them to the public. Find out firsthand if you can recommend new items, for if we merely stock them because of a trend, they may not solve our customers' problems. Remember, they are looking to you and believing in your experience and honesty, and ill advice to make a profit may cost you customers later.

The customer is always right. Few nurserymen guarantee plants to live (and I believe that they never should). But if a customer is dissatisfied, try to make some adjustment. But have it understood in the beginning that plants are perishable and are affected by the lack of care, improper planting, etc., and so are not guaranteed. Then the customer will not think later on that you are looking for a loophole and will not change to another nursery. However, customers sometimes do have cause to expect replacement, such as when one color is sold for another.

There are a few conditions which might irritate a retail nurseryman. I am sure all of us are quite fond of our work, but it seems we can hardly close shop; we must be available at all times, even for late calls at night asking what to do for a plant that cannot live until morning, or calls during mealtimes asking if we sell petunias.

As I see it, at present our greatest problem is to supply the demand for plants of all sizes and varieties. Often it is necessary to order from over the entire country to get an order filled, but with increasing help and materials, this situation should soon clear up. I am quite optimistic about the nurseryman's future, so optimistic that it reminds me of the man who, although treed by a bear, enjoyed the landscape.

T. L. BOULAND is starting a general nursery business at Calvert City, Ky.



Address by T. D. Johnston, Dalraida Nurseries, Montgomery, Ala., given June 9 before the Alabama State Florists' and Nurserymen's Association.

## AMERICAN ASSOCIATION OF NURSERYMEN

**RICHARD P. WHITE,**  
EXECUTIVE SECRETARY



636 SOUTHERN BLDG.,  
WASHINGTON, D. C.

### A. A. N. CONVENTION PROGRAM.

The program for the convention of the American Association of Nurserymen to be held at Boston during the third week in July contains all of the features of prewar days, business and social, with a few things added. Aside from the names of one or two speakers, the complete program schedule appears on the opposite page.

Because of the great amount of business to come before them, the members of the executive committee will begin their sessions Thursday, July 17, and continue daily up to the opening of the general meeting. Affiliated organizations will meet during the preceding days, also.

An important innovation is the day's program, July 21, for secretaries of regional, state and local nurserymen's associations. This program has grown until it now includes both morning and afternoon sessions. By comparing notes and exchanging ideas, these association officers expect to be able to carry on organization affairs more forcefully and efficiently.

During the same day, members of the National Landscape Nurserymen's Association will conduct a program of discussion being prepared by the officers.

Preceding the A. A. N. general sessions for members will be the organizing period of the board of governors, Monday evening, July 21, when routine committee reports will be presented. The general sessions will open Tuesday morning, and the time of these periods is devoted to important committee reports and addresses of wide interest.

The social side of the convention will open Sunday afternoon with the initial ceremonies of the Clam Digger's Club, a place of meeting for those who wish to carry on discussions in a lighter vein. Monday evening will be held a get-acquainted gathering for the young folks, and they will enjoy a beach party the following day. Tuesday evening a boat trip about Boston harbor will be one of the highlights of the week. Another will be the trip to the Arnold Arboretum Wednesday morning.

The usual banquet will take place in the evening.

The women will have a program of diversion offered them by a committee composed of the wives of the nurserymen on the local arrangements committees and headed by Mrs. Helen Cascio. Her executive ability was demonstrated by the way she ran the Peter Cascio Nursery, West Hartford, Conn., while her husband was in service. A highlight will be a trip to historic Lexington and Concord, for women and juniors alike.

### TESTING NEW VARIETIES.

In the publicity program of the A. A. N., a release last month called attention to the cooperative program of the association and the United States Department of Agriculture for the testing and distribution of new strains or varieties of plants. The release stated:

"More than 200 private nurseries are expected to take part in the new program of producing, testing and distributing new varieties developed by the U. S. D. A., according to Dr. Richard White, executive secretary of the American Association of Nurserymen, and Dr. W. V. Lambert, director of the Agricultural Research Administration.

"Nine new varieties of chrysanthemums were sent out recently from the government's experiment station at Beltsville, Md., to seventy cooperat-

ing members of the American Association of Nurserymen. These new strains, which are not yet named, will be thoroughly tested by nurserymen from coast to coast.

"New strains of azaleas are now being tested at fourteen trial grounds. It is expected that work on perennials and deciduous and flowering shrubs will follow.

"New methods of propagation, new rootstocks and varieties of shrubs or other ornamentals will be tried out by the nurserymen who are members of A. A. N. When such new plants are fully tested for hardiness, adaptability and horticultural worth they will receive a variety name and be made available to the public."

### NEBRASKA LIEN LAW.

The legislature of Nebraska passed a lien law protecting nurserymen May 20, after the Nebraska Nurserymen's Association had made eight unfruitful attempts previously to obtain such legislation. The text of the law reads as follows:

"Any person who shall perform any labor or furnish any material, machinery, or fixtures, including gas and electric apparatus and lighting fixtures, whether detachable or undetachable, (1) for the construction, erection, improvement, repair or removal of any house, mill, well, cistern, manufactory, building, or appurtenance, (2) for grading, filling in, excavating, leveling, clearing, grubbing, furnishing and placing soil or sod, (3) for furnishing and planting trees, shrubs or plant materials, (4) for labor performed in planting trees, shrubs or plant materials on the land by virtue of a contract or agreement, expressed or implied, with the owner thereof or his agents, shall have a lien to secure the payment of the same upon such house, mill, well, cistern, manufactory, building or appurtenance, and the lot of land upon which the same shall stand or the work is performed."

Other states which have lien laws covering labor and material supplied by nurserymen are Iowa, Washington, New York, New Jersey, Oklahoma, Tennessee, Michigan and Oregon.

Amendments have been put before the legislatures in Massachusetts, Maryland, Indiana, North Carolina and Connecticut, without report to date on the outcome.

G. W. HINRICHS, G. W. Hinrichs Pansy Farm, Alton, Ill., is back at his business following a vacation to recover from the flu.



Mrs. Peter Cascio.

JULY 1, 1947

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# American Association of Nurserymen

## Seventy-second Convention, at Hotel Statler, Boston, Mass.

### COMPLETE PROGRAM SCHEDULE

#### THURSDAY, JULY 17.

10:00 A. M. A.A.N. Executive Committee. Hancock room.

#### FRIDAY, JULY 18.

9:00 A. M. A.A.N. Executive Committee. Hancock room.  
10:00 A. M. Ornamental Growers' Association, Stock Commit-  
tee. Parlor B.  
2:00 P. M. Wholesale Fruit Tree Growers' Association, Stock  
Committee. Parlor B.

#### SATURDAY, JULY 19.

9:00 A. M. A.A.N. Executive Committee. Hancock room.  
10:00 A. M. Ornamental Growers' Association. Parlor B.  
2:00 P. M. Wholesale Fruit Tree Growers' Assn. Parlor B.

#### SUNDAY, JULY 20.

9:00 A. M. A.A.N. Executive Committee. Hancock room.  
10:00 A. M. Retail Nurserymen's Association of the United  
States. Parlor B.  
2:00 P. M. A.A.N. Executive Committee, with market develop-  
ment and publicity committee and its subcom-  
mittees. Hancock room.  
2:00 P. M. National Assn. of Plant Patent Owners. Parlor B.  
4:00 P. M. Opening of Clam Diggers' Club. Georgian room  
and Parlor A.

#### MONDAY, JULY 21.

9:00 A. M. Association Secretaries. Room 419.  
Call to order by Richard P. White.  
Election of chairman.  
Summary of information on state association  
management, by Richard P. White.  
Report of "State Association Activities and Pro-  
jects," by Jack Lincke, secretary, California  
Association of Nurserymen.  
Building meeting program.  
Regional, by Louis C. Vanderbrook, secretary,  
New England Nurserymen's Association.  
State, by John D. Siebenthaler, secretary,  
Ohio Nurserymen's Association.  
Local, by Hewlett W. Lewis, secretary, Long  
Island Nurserymen's Association.

2:00 P. M. Association Secretaries. Room 419.  
Report on "Legislative Activities of State Asso-  
ciations," by Miles W. Bryant, secretary, Illi-  
nois State Nurserymen's Association.  
Cooperation with state agencies.  
"State Departments of Agriculture and Regu-  
latory Inspection Matters," by Murray P.  
Ramsey, secretary, Texas Association of  
Nurserymen.  
"State Agricultural Experiment Stations' Re-  
search and Extension," by Clyde Heard,  
secretary, Iowa Nurserymen's Association.  
"State Highway Departments," by Frank  
Pflumm, secretary, Kansas Association of  
Nurserymen.

9:00 A. M. National Landscape Nurserymen's Association.  
Salle Modern. N.L.N.A. Executive Committee.  
Parlor D.

10:00 A. M. All-America Rose Selections, Inc. Parlor B.  
4:00 P. M. Clam Diggers' Club. Georgian room and Parlor A.  
8:00 P. M. Junior Get-acquainted Party. Parlors B and C.

8:00 P. M. A.A.N. Board of Governors. Ballroom.  
Call to order by President Richard H. Jones.  
Report of credentials committee.  
Roll call of delegates.  
Standing committee reports.  
Arbitration, by Richard P. White.  
Botanical gardens and arboretums, by Robert  
Pyle.  
United horticulture and plant nomenclature,  
by J. Frank Styer.

#### MONDAY, JULY 21—Continued.

8:00 P. M. A.A.N. Board of Governors.  
Standing committee reports—Continued.  
Legislation and national affairs, by K. B. Law.  
Market development and publicity, by Charles  
S. Burr.  
Membership, by Richard H. Jones.  
Quarantine, by A. F. Meehan.  
Horticultural standards, by William Flemer, Jr.  
Trade practices and ethics, by Chet Marshall.  
Trade relations, by Kimball Andrews.  
Transportation, by H. H. Chase.  
United States Chamber of Commerce Coun-  
cilor, by Owen G. Wood.  
Consideration of reports and additions to agenda.

#### TUESDAY, JULY 22.

9:00 A. M. N.L.N.A. Executive Committee. Parlor D.  
10:00 A. M. A.A.N. General Meeting. Ballroom.  
Invocation, by Rev. S. M. Lindsay, First Baptist  
Church, Brookline, Mass.  
Roll call of delegates.  
Welcome to Boston.  
10:40 A. M. President's message, by Richard H. Jones.  
11:00 A. M. Treasurer's report and presentation of budget, by  
Howard C. Taylor.  
11:15 A. M. Address, "What Is This Industry?" by H. Truman  
Fossum.  
12:00 A. M. Ladies' auxiliary luncheon and business meeting.  
Georgian room.  
2:00 P. M. A.A.N. General Meeting. Ballroom.  
Roll call of delegates.  
Report of executive secretary, by R. P. White.  
2:30 P. M. Report on trade promotion and market develop-  
ment, by Charles S. Burr.  
3:30 P. M. Nominations by regional delegates for executive  
committeemen.  
Nominations for officers 1947-48.  
9:00 A. M. and 4:00 P. M. Junior beach party.  
8:00 P. M. American Nurserymen's Protective Association.  
Parlor B.  
8:00 P. M. Boston harbor trip on S.S. Pilgrim Belle.

#### WEDNESDAY, JULY 23.

9:30 A. M. Tour of Arnold Arboretum.  
10:00 A. M. Ladies' and juniors' trip to Concord, Lexington and  
Sudbury, with luncheon at the Wayside Inn.  
1:30 P. M. A.A.N. General Meeting. Ballroom.  
Roll call of delegates.  
1:45 P. M. Review of committee activities, by Vice-president  
John A. Armstrong.  
2:45 P. M. Address, "National Fruit Variety Trends Survey,"  
by John T. Bregger, associate secretary, Amer-  
ican Pomological Society, Clemson, S. C.  
3:45 P. M. Address on merchandising, by a local speaker.  
7:00 P. M. Annual past presidents' banquet. Ballroom.

#### THURSDAY, JULY 24.

10:00 A. M. A.A.N. General Meeting. Ballroom.  
Board agenda.  
Trade promotion program.  
Trade practices committee report and bylaws  
changes.  
11:00 A. M. Address, "Soil Conservation for Nurseries," by  
A. D. Slavin, chief of the regional nursery divi-  
sion, Milwaukee, Wis.  
2:00 P. M. A.A.N. General Meeting. Ballroom.  
Completion of board of governors' agenda.  
Discussion and adoption of 1947-48 budget.  
Report of necrology committee, by F. R. Kilner.  
Election of executive committee and officers.

# Prize Designs of Small Home Grounds

The family for whom the ranch-style home and landscape plan is intended has selected this house and lot on the edge of town in order to have more space, which was an important factor to be considered by the designer in arranging the lawn areas and plantings. With the house set almost in the center of a valleylike and gently rolling lot, 100x200 feet, the designer has provided ample space to the front and rear of the house for lawn and garden, as well as a strip about twenty feet wide at either side of the house for other

garden features desired by the family, such as the small fruit trees at one side.

A further specification for the landscape plan for the ranch-style house in the contest sponsored by the American Nurseryman and the National Landscape Nurserymen's Association was that space be allotted for the family's two boys, ages 10 and 13, to play with their friends and pets. Just for this purpose, there is a large game lawn at the rear of the house, and behind it are a playhouse and a small area for the pets.

While the garden area around the house is spacious, it is nevertheless the intention of the family to maintain the grounds by itself. This necessitated the use of plants that would be hardy in zone 3 and of attractive arrangements that would not be difficult for this family to care for.

The comments on this plan which appear below are by its designer, Julian E. Schmitz, Watertown, Conn. Mr. Schmitz also designed the prize-winning plan for a colonial house in zone 3 which appeared in an earlier issue.

## RANCH STYLE HOUSE, ZONE 3.

The floor plan of this ranch house is most interesting and suggests the type of landscape planning that would be fitting and appropriate for the character of this spacious lot.

First consideration for a landscape plan is the design and location of the driveway to the garage. While a portion of the front lawn is occupied by the garage court, it permits the owner to drive out forward onto the highway and also affords some parking space. A flagstone walk follows the line of the court, giving a foot path from entrance door to the garage and to the driveway, which will also be used as an entrance walk. A post and rail fence built between the corner stone walls lends a rural touch to the setting.

The drying yard is placed near the kitchen and is enclosed by a woven wood fence approximately five feet high. This wood structure continues the character of the building and makes a highly satisfactory enclosure.

The form of the building at the rear suggests the construction of an outdoor terrace. It will be of native flagstone, set upon a sand base, with tight joints, and will be elevated two steps above the grass panel. Crushed gravel terraces extend along the other sides of the house to connect with the flagstone walk. A dry retaining wall will be used to elevate these terraces and at the same time make pleasing backgrounds for the flower borders.

Along the right side of this area is an informal setting including a picnic area and a naturalistic walk leading to a small pool half hidden by carefully placed stones

## BY JULIAN E. SCHMITZ, WATERTOWN, CONN.

and native plant material. A small outlet allows water to trickle slowly over rough stones into the pool.

The rear lawn, suitable for games and repose, is entered either from the main path near the house or from the picnic area. A dry stone wall or low evergreen hedge separates it from the areas just described. This wall is to extend to the left property line to form an enclosure for the vegetable garden and to increase the apparent width of the garden. The lawn area is further defined by a post and rail fence, on the inside of which is nailed a wire mesh fence for the purpose of excluding pests. A heavy wire fence of sturdy construction is placed along the property lines, as noted, to protect the area completely from intrusion.

At the rear of the property and as a terminal for the axis from the house terrace is a fitting structure of similar character to the house. This small building will be used for garden tools or a workshop, but more important is its use by the youngsters of the family and their friends as an all-around playhouse and general meeting room. Near by is an enclosure for pets or hobbies.

To the left of the house an area is reserved for planting small fruit trees or berry bushes.

The plants chosen for this plan are hardy for the area around Connecticut, and they are certain to make an attractive appearance all through the year. The planting groups are kept compact and orderly, so as to leave the important areas, or units of the plan, open and free from interfering trees or shrub masses. Julian E. Schmitz.

## TORNADO FORCES NURSERY TO CLOSE.

The Woodward Nursery, Woodward, Okla., managed by E. M. Lucas, has been forced to close temporarily following the regional tornado of April 9, which inflicted considerable damage upon the town. The nursery and the Lucas home were directly in the path of the storm. The house and automobile were badly wrecked, and the packing shed and processed stock of the nursery were completely demolished.

The Woodward Nursery has been

in business at Woodward for the past twenty years, and Mr. Lucas is hoping to reopen in the fall. He reports that several nurserymen offered help after the tornado. J. Frank Sneed, of Sneed Nursery, Oklahoma City, Okla., canceled the spring account; R. L. Brent, of Brent's Nursery, at Jackson, Miss., sent two crates of evergreen liners; Vaughan's Seed Co., Chicago, Ill., offered a supply of bulbs, and the Sarver Nursery Co., Dallas, Tex., offered evergreen liners.

In a special ceremony May 4, initiating a tree-planting project spon-

sored by radio station WKY, Governor Turner of Oklahoma planted a tree, symbolic of new life for Woodward, on the spot where one of the city's elms had been uprooted. The elm tree was donated by the Woodward Nursery.

An estimated 10,000 trees in Woodward were destroyed by the storm, and at least 6,000 trees will have to be planted to replace those which formerly lined the town's streets. School yards, parks and playgrounds will require additional hundreds. A more auspicious program will be undertaken in the fall.

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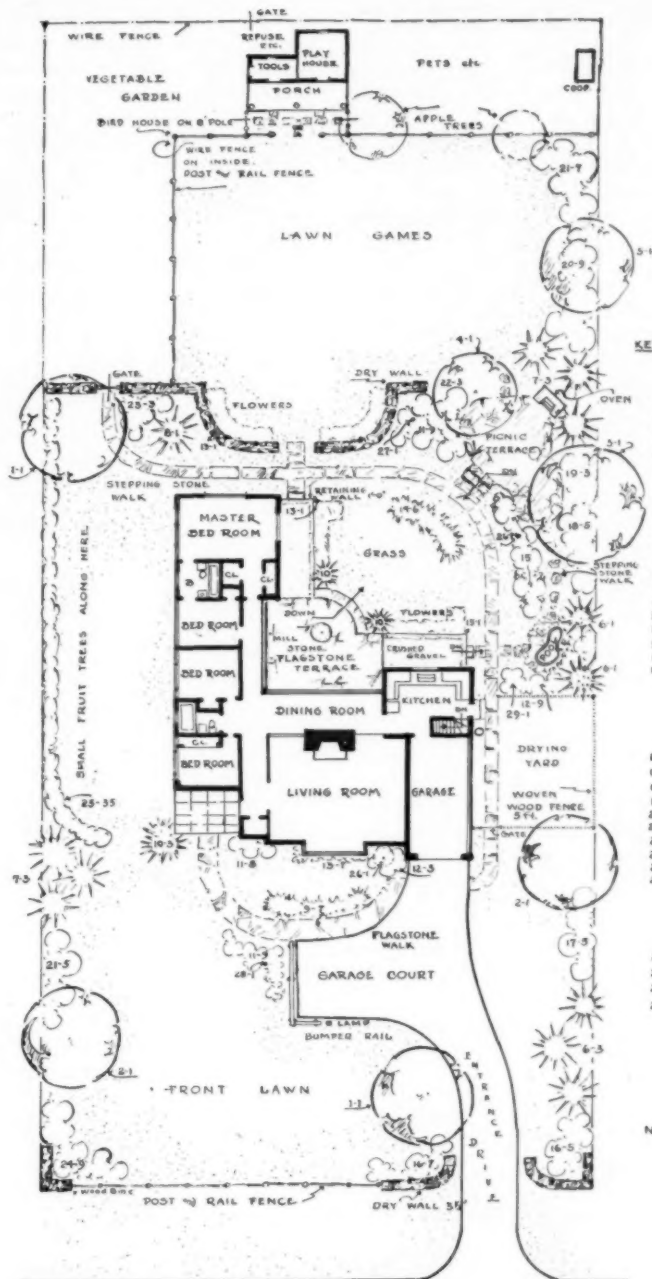
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JULY 1, 1947



# LIST OF PLANTS

KEY NO BOT. NAME COMMON NAME

## SHADE TREES

- |    |                          |              |
|----|--------------------------|--------------|
| 1. | <i>Quercus palustris</i> | Pin Oak      |
| 2. | <i>Acer saccharum</i>    | Sugar Maple  |
| 3. | <i>Ulmus americanus</i>  | American Elm |
| 4. | <i>Quercus rubra</i>     | Red Oak      |
| 5. | <i>Acer dasycarpum</i>   | Silver Maple |

## EVERGREENS

- |     |   |                       |
|-----|---|-----------------------|
| 6.  | <i>Taxus canadensis</i>                       | Canadian Hemlock      |
| 7.  | <i>Pinus strobus</i>                          | White Pine            |
| 8.  | <i>Pseudotsuga douglasii</i>                  | Douglas Fir           |
| 9.  | <i>Juniperus c. horizontalis</i>              | Horizontal Juniper    |
| 10. | <i>Taxus cuspidata</i>                        | Spreading Yew         |
| 11. | <i>Kalmia latifolia</i>                       | Mountain Laurel       |
| 12. | <i>Rhododendron</i>                           | In variety            |
| 13. | <i>Euonymus alatus</i>                        | Evergreen Bittersweet |
| 14. | <i>Taxus brevifolia</i>                       | Dwarf Yew             |
| 15. | Rockery with Azaleas, Pieris, Leucothoes etc. |                       |

## DECIDUOUS SHRUBS

- |     |                             |                     |
|-----|-----------------------------|---------------------|
| 16. | <i>Vaccinium corymbosum</i> | High Bush Blueberry |
| 17. | <i>Lonicera morrowii</i>    | Bush Honeysuckle    |
| 18. | <i>Viburnum dentatum</i>    | Arrow Wood          |
| 19. | <i>Hamamelis virginiana</i> | Witch Hazel         |
| 20. | <i>Weigela Eva Rathke</i>   | Red Weigela         |
| 21. | <i>Forsythia speciosa</i>   | Snowy Forsythia     |
| 22. | <i>Euonymus alatus</i>      | Winged Euonymus     |
| 23. | <i>Syringa vulgaris</i>     | Common Lilac        |
| 24. | <i>Berberis Korean</i>      | Korean Barberry     |
| 25. | <i>Ligustrum regium</i>     | Regel Privet        |

## FLOWERING TREES

- |     |                               |               |
|-----|-------------------------------|---------------|
| 26. | <i>Cornus florida rubra</i>   | Pink Dogwood  |
| 27. | <i>Cercis canadensis</i>      | Red Bud       |
| 28. | <i>Cornus florida</i>         | White Dogwood |
| 29. | <i>Amelanchier canadensis</i> | Downy Dogwood |

## NOTES:

Concealed jet for pool so placed water falls naturally over shaft. Vial stones used around pool to cover up cement.

# RANCH-STYLE

ZONE 3  
SCALE



## Quarantine Law Hearing

Such a wide interest was aroused over the proposed amendment to the foreign plant quarantine act that the hearings before the House committee on agriculture, June 5 and 6, at Washington, D. C., had to be extended to an unscheduled third session.

The words "and bulbs," which had not appeared in the original bill but was in the bill that was passed by the Senate, caused the unusual interest. The words were said to have been inserted at the instigation of the lily bulb growers of Oregon by their congressman. This immediately changed the bill from a simple piece of legislation to a controversial one, with the United States Departments of State and Commerce leading the fight, vigorously supported by the Netherlands government and the Dutch bulb interests.

The first five witnesses called were representatives of four of the organizations which sponsored the original bill: Richard P. White, executive secretary of the American Association of Nurserymen, whose testimony took one and three-quarters hours; A. F. Mechan, chief adviser of the A. A. N. quarantine committee; C. A. Boyer, secretary of the National Plant Board; H. K. Thatcher, National Association of State Secretaries, Commissioners and Directors of Agriculture; Robert H. Roland, secretary of the Society of American Florists. Each of these witnesses emphasized the serious need of the proposed bill for the protection of American horticulture, agriculture and forestry, and each one urged strongly the deletion of any reference to bulbs from the bill.

Cross-examination of Dr. White

by members of the committee brought out the fact that there was serious question of the wisdom of the provision in the bill to limit import quantities of suspected varieties of plants "to that needed for propagation purposes." Dr. White and the other three cosponsors of the bill stated they would not object to the elimination of that phrase.

The only proponents of the bill in its present form, including the reference to bulbs, were Congressman Harris Ellsworth, of Oregon, and W. H. Tolbert, executive secretary of the Oregon State Farmers' Association, of Portland. Both men urged passage of the bill H. R. 2773, which was introduced by Congressman Ellsworth at the request of the lily growers. Objections to the bill as a whole came from only two witnesses: Arthur Dummett, dealer in nursery stock, and a representative of the Holland Plant Growers' Association, from Boskoop.

All the other witnesses, many of whom had lengthy prepared statements, objected only to the inclusion in the bill of any reference to bulbs. Most of them were representatives of garden clubs, amateur horticultural organizations and the Holland bulb growers.

The House committee on agriculture thereafter considered the testimony in executive session, and its finding will be made public soon.

### SAN JOAQUIN VALLEY ASSOCIATION OFFICERS.

The San Joaquin Valley Nurserymen's Association, a chapter of the California Association of Nursery-

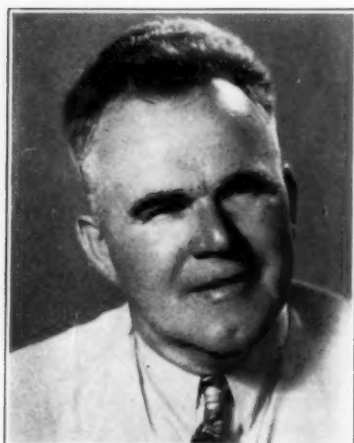
men, has a present membership of fifty-one members. These members are located in the inland portion of the center of the state, from the southern tip of the San Joaquin valley in Kern county north to and including Stanislaus county. This membership represents a large majority of all of the nurseries which provide the valley with most of its nursery stock.

Charter members have been working since the association was formed, and during the past few years the organization has grown rapidly. Its slogan is "Unity Is Strength."

The progressive nurseryman finds many opportunities for advancement in the San Joaquin valley, known as the breadbasket of California. Climatic conditions are good for the production of fruits, vegetables and all other produce which so vitally interests nurserymen.

The chapter president is Willis A. Stribling, of Stribling's Nurseries, at Merced, Cal. George Walder, of George Walder Nursery Co., at Fresno, and formerly in charge of the botanical garden and grounds at Fresno State College, is vice-president. Vance V. Edmonson, of Stribling's Nurseries, is secretary. Directors representing the chapter in the state association are President Stribling and Sydney Whitehorn, of Sierra Nursery & Seed Co., at Fresno, who has held this position for a number of years. These officers were elected in September, 1946.

FORMERLY the Hyde Park Gardens, 1605 North Eleventh street, Boise, Idaho, the nursery owned by Mrs. James Morris has been moved to a suburban location on Route 1, Boise, and the name has been changed to Morris Gardens.



George Walder.



Vance V. Edmonson.



Willis A. Stribling.

# Disease Problems of Nursery Stock

By P. P. Pirone

With such a broad spread of interests as exists in the different types of nurserymen within the association, I find it difficult to confine all my remarks to matters of interest to every member. In order to satisfy the greatest number, a few words on various diseases should be of interest to each group.

## Damping-off Control.

Perhaps the logical place to start is with seed and seedling diseases.

The use of seed protectants as yet has not been as widely adopted by nurserymen as it has by vegetable growers and farmers in general. I refer, of course, to treatment of seeds with such materials as Arasan, Semesan, Spergon and others.

Why these practices have not been generally adopted by nurserymen, no one can say. Perhaps it is because nurserymen are not confronted with the seed decay problems that confront other growers, or it may be that nurserymen provide better conditions for seed germination and thus have little loss from seed decay and damping-off.

One phase of this problem, however, the damping-off disease which commonly occurs in rhododendron and azalea seedlings, is troublesome to many nurserymen. Under certain weather and moisture conditions, an entire planting of understock seedlings can be lost almost overnight from this disease. Until recently, no sure method of preventing damping-off was known. It is true that steam sterilization of soil or the application of certain chemicals was known to check it, but these were not foolproof. We know today that by far the best method is that devised by V. T. Stoutemyer, now at the University of California, and C. P. Close, of the United States Department of Agriculture, in which the rhododendron or azalea seeds are sown on sifted sphagnum moss. By this method a grower is reasonably sure of getting almost 100 per cent germination with no postemergence damping-off.

## Spraying for Leaf Diseases.

Although it is true that the bulk of the spraying done on nursery stock and trees is directed toward

the control of insect pests, there are occasions when a certain fungous disease must also be checked. I refer particularly to such diseases as black spot of rose, leaf scorch of azalea and leaf spots of rhododendron. Until a few years ago, the fungicides most commonly recommended for such diseases contained either copper or sulphur.

Within the past few years an entirely new type of fungicide has been developed that has the ability to control many leaf diseases and that has certain advantages over the older materials. I refer to ferric dimethyl dithiocarbamate, sold under the trade names of Fermate and Karbam.

This material is compatible with other fungicides and with the insecticides generally used on ornamentals. It must not be used on plants with open blooms because it leaves black, spotty areas. Aside from this one unfavorable characteristic, it has a number of distinct advantages. First and foremost, it is less apt to cause plant injury. Copper sprays injure roses, laurel and other plants if cool, wet weather follows their application; sulphur compounds, on the other hand, may cause injury if applied on days when the temperature is over 85 degrees Fahrenheit.

An excellent combination spray using Fermate or Karbam includes fifty per cent DDT, wettable sulphur and a spreader. Such a spray will control foliage diseases and most of the insect pests that attack ornamentals. To make 100 gallons of such a spray all that is needed is one pound of each of these ingredients plus about six ounces of a suitable spreader.

## Azalea Flower Spot.

Before I leave the subject of spraying, I should like to mention the azalea flower spot disease. Some of you may have read how this new disease can destroy opened azalea flowers overnight. You may also have read that the material known as Dithane can control this disease.

I mention it here because some of you have written for information about it. Azalea flower spot is not a disease that should concern Pennsylvania nurserymen, as it is primarily a disease of the southern United States and to my knowledge has never been found north of South Carolina.

Another disease problem of azaleas, which in some years attracts considerable attention, is chlorosis of azaleas. This disease is characterized by the appearance of yellow or even creamy-white, stunted leaves on lining-out stock. The yellowing is a secondary effect, which may be caused primarily by lack of available iron, usually in soils of low acidity, or it may be caused by some factor injurious to the roots.

Improvement in color of the leaves may be obtained by spraying the leaves with one-half of one per cent of ferric ammonium citrate (green pearls), or with one-fourth of one per cent ferrous sulphate. Although such treatment will provide rapid greening of the leaves, the soil factors primarily responsible for the yellowing must be corrected for permanent improvement.

## Root Rot of Rhododendrons.

Some far more serious diseases that have been unusually prevalent this year (based on the number of specimens and letters I have received) are the group of diseases caused by species of phytophthora fungi.

The fungus *Phytophthora cinnamomi* was particularly severe on *Rhododendron ponticum* and hybrid seedlings. This fungus attacks young stock primarily and occurs frequently on 2 to 3-year-old grafted plants. It rarely attacks older plants.

*Phytophthora cryptogea*, on the other hand, is responsible for the browning of the bark at the root crown in larger plants. This fungus was common on collected *R. maximum*, *R. catawbiense* and *R. carolinianum*. As a result of the infection of the main roots and of the main stem at or just below the soil line, the branches wilted and died. Badly infected plants first became thin and leggy and eventually died.

Why the latter disease was so serious in 1946, I cannot say. The exceptionally rainy seasons of 1945 may have been a factor. Many of the 1946 infections noted may have actually started during 1945.

For the purposes of control, both phytophthoras may be grouped together. Infection in both cases occurs primarily through the roots. Hence, anything done to provide optimum growth conditions for the roots should help to prevent these diseases. Rotation in frames for growing

Address presented by P. P. Pirone, associate research specialist in plant pathology, Rutgers University, New Brunswick, N. J., at the winter meeting of the Pennsylvania Association of Nurserymen, at Lancaster.

stock, adjusting the pH from 4.0 to 4.5, using acid peats and leaf molds, using light soils with good drainage and avoiding overwatering all help.

I might mention a third phytophthora fungus, *P. cactorum*, that behaves differently than the two already mentioned. This fungus causes large, water-soaked areas on the foliage of hybrid rhododendrons growing under dense shade and high humidities. This fungus enters at the top of the plant and works down the stems, often killing the entire plant.

Of the three phytophthora fungi, *P. cactorum* is the easiest to control. Increasing the light, pruning out dead branches to sound wood and spraying the plants after blooming with a good fungicide will clear up this disease.

#### Dieback of Taxus.

Yews are an important item in most nurseries. These plants are among the most profitable to grow and lead the list for providing customer satisfaction. I should call to your attention, however, that yews will not thrive under certain conditions.

Over the years we have found that yews do best on well drained sites. On poorly drained areas, the roots begin to die back, with the result that some of the branches and even the entire plants may die.

We have also noted that an occasional application of ground limestone to the soil around taxus appears to produce greener and more luxuriant growth.

The roots of yews may also be attacked by a fungus belonging to the fungus genus *fusarium*. We have isolated this fungus both from young rooted plants and from older plants that were well established in foundation plantings. While certain factors, such as poor soil drainage and too deep planting, may have increased the susceptibility to this fungus, we have secured infection readily by inoculating roots growing under good environmental conditions and have recovered the fungus from such roots.

For the present, we suggest that rooted cuttings should be lined out in the field or frames as soon as possible and that these should not be planted too deeply. For larger plants either in the nursery or foundation plantings, we suggest that good soil drainage be assured and that an occasional application of ground limestone be worked into the soil.

#### Nematodes on Boxwood.

Many of you may have read about the so-called meadow nematode as a

factor in the dieback of boxwood in the northeast. Just how important these tiny parasitic worms were in the extensive dying back of this plant during the year is anyone's guess. My personal observations lead me to conclude that the nematodes are not so important as some would have us believe.

Of the dozens of large, dead or dying boxwoods I examined during the past year, I was able to detect the nectria canker fungus on most of the plants. Hence, I still feel that the branch dieback could just as well be accounted for by nectria fungous infections as by the presence of the nematodes in the roots.

#### Fire Blight on Ornamentals.

Those of you primarily interested in the maintenance of ornamental trees belonging to the rose family



P. P. Pirone.

will want to know how to control the bacterial disease fire blight. Although this bacterium attacks pears and apples most commonly, it can cause considerable damage to such trees as mountain ash, hawthorns, cottonasters, firethorn and flowering quince.

We have observed that the application of a single spray at full-flower time will give practical control. A mild copper fungicide directed into the blooms will do much to reduce the population of bacteria deposited there by bees and flies. Thus far Fermate or Karbam have not shown promise in combating this disease, and we must still depend on copper fungicides.

#### 2,4-D Injury to Trees and Shrubs.

In closing, may I call attention to the danger of careless use of the new

selective weed killers containing 2,4-D? We have noted considerable injury where such sprays were allowed to drift on near-by trees and shrubs during lawn treatments. If you use this material on lawns, make the applications on windless days, at low pressure, and try to prevent as much drift as possible. Follow the directions for its use to the letter.

#### PIRONE PATHOLOGIST AT NEW YORK GARDEN.

Dr. P. P. Pirone, for nine years associate professor of plant pathology at Rutgers University, New Brunswick, N. J., has been appointed plant pathologist at the New York Botanical Garden, as of July 1.

In addition to teaching at Rutgers University, Dr. Pirone was a research specialist in the diseases of ornamental plants at the New Jersey agricultural experiment station. Before going to Rutgers, he was for ten years a faculty member of the Cornell University department of plant pathology. While at Cornell, he experimented in the field of controlling diseases and insects common to ornamental plants. He received his Ph.D. in 1933.

Inventor of the Rutgers aeropropagator plant box, in which cuttings of plants can be made to form roots while suspended in midair, Dr. Pirone also aided in the discovery of three new species of bacteria which parasitize plants.

His book, "Maintenance of Shade and Ornamental Trees," published in 1941, is recognized as an outstanding contribution to the field. He is the author of numerous articles, both technical and popular, and has spoken frequently over the radio. He has been editor of *Nursery Disease Notes*, a monthly publication of the New Jersey station, and a member of the editorial board of the magazine *Trees*.

Secretary of the New Jersey Association of Nurserymen since 1939, Dr. Pirone devoted much time to the New Jersey victory garden and food conservation committees during the war. He has also been a member of the board of governors of the National Shade Tree Conference.

Married to the former Loretta Kelly, Hempstead, N. Y., in 1933, Dr. Pirone is the father of two boys and one girl.

AFTER two years of preparation, the MacQueen Nursery, Coshocton, O., owned by J. M. MacQueen, is starting to sell stock both wholesale and retail.

# More Reports on Spring Business

Supplementing the reports from wholesale nurserymen on their spring business in the preceding issue, further comments on the season tell an almost uniform story of difficulties in digging, shipping and planting because of the unusually cold and wet weather throughout the middle west and east. Despite this situation, however, stock moved well and sales volume was good, according to most reports. As a result of the heavy rains, new plantings are growing well.

With weather conditions slowing down operations, labor was of secondary consideration in most sections. There was sufficient help in some areas, while in others the shortage of labor was as bad as or even worse than in previous seasons.

Those who have been able to do so have tried to increase their plantings to help meet the heavy demand for stock, but it will be some time before supply can equal the demand. With the continued scarcity of stock, especially in items such as balled and burlapped evergreens, prices will remain up. Since the cost of doing business is steadily rising, nurserymen do not see how they can make price reductions.

## Hectic Spring in Illinois.

The middle of June still found cold and wet weather in Illinois, which was typical of the entire spring season. The resulting delay in shipping orders was a great inconvenience to wholesale customers, but since most were experiencing equally inclement weather, they were most patient, according to Miles W. Bryant, Bryant's Nurseries, Princeton, Ill., who writes:

"This has been one of the most hectic springs, at least as far as getting work done was concerned, that we can ever remember, yet it hung on long enough so that we were able to work out what we feel was a most satisfactory dollar volume of business. Like everyone else through the central west, we have been very wet and very cold all during the spring season. Continuous rains delayed us seriously in getting stock in from the field and also in our planting of lining-out stock. The most serious delays were, of course, in the shipment of evergreens, but we encountered delays on everything that had to come from the field. Fortunately the long-drawn-out season permitted us to complete our shipments before the season was too far advanced. But in order to do that, we did have to re-

fuse almost all orders for evergreens that came to us after April 1.

"Of course, our delays in handling stock seriously handicapped many of our wholesale customers and undoubtedly cut down considerably on the volume of business which many of them might have done. Most of them seemed to realize fully the situation that we were in and were patient with us. We really expected heavy cancellations, particularly on evergreens, and it was surprising to us how few customers canceled in spite of the delay in handling their orders.

"The demand for all ornamentals was good, particularly so on evergreens. Fruit trees and fruit plants moved more slowly with us than they had in many years, and our volume on those items was considerably curtailed, particularly on retail sales. This loss on retail sales we feel was largely caused by the weather, for much of our outlet for fruits is with the farmers, and weather conditions also handicapped them to such an extent that they spent every possible moment in their own fields.

"We were still seriously handicapped by cold and wet weather as late as June 12 when the thermometer stood at 52 degrees, and there was still a great deal of corn and beans yet to be planted in this area. We have only just finished with our lining-out stock, and of course the weeds still are with us, although we are beginning to make some headway with them."

## Sales Good in Indiana.

Salable stock moved well, and although heavy rains retarded digging and planting earlier in the season, plantings are now growing well, according to C. M. Hobbs & Sons, Inc., Bridgeport, Ind., from whom comes the following report:

"Our year's business has been very satisfactory. We had little salable stock left at the end of the season.

"We made our usual planting this spring, and everything is growing because of so much rain, which retarded our digging and planting earlier in the season.

"Help of any kind is still difficult to find. However, we are fortunate to get about all we need from a state school near the nursery.

"We do not believe there is an oversupply of stock, and some items will be scarce and prices will be maintained at present levels. Maybe

a few scarce items will be higher in price. The general outlook for the nursery business is good."

## Weather Helps Planting.

The late season was a help to the Jewell Nurseries, Inc., Lake City, Minn., according to Ken Law, manager, who writes:

"Demand was generally good, and the volume was up somewhat. Labor was a little more plentiful than in recent years, and with the season opening late and developing slowly because of cool and wet weather, we were afforded an opportunity to finish our delivery in fair shape and get our planting well done.

"As to the question of available stock and prices for the immediate future, I would say that we do not see any sharp changes in price right now, but probably prices are going to strengthen somewhat on balled evergreens and well grown shade trees."

## Booked since Fall.

With most stock booked since last fall, a good season was had by the Fairview Evergreen Nurseries, Fairview, Pa., and after a record spring rainfall new plantings look fine, according to Charles W. Hetz, who writes:

"Business this spring was very good, with practically all stock booked in the fall of 1946. Cellar clearance on privet and barberry not booked previously was disappointing. This condition might possibly point to lower prices on these items next season.

"According to our weather bureau, we experienced record rainfall for both April and May, and the weather was generally cold. Up to the middle of June farm crops, such as oats and corn, had not been planted. The rain made slow work of spring digging. However, we found most of the trade experiencing the same weather and very tolerant.

"On the other hand, we must say that the weather favored transplanting, and our new plantings look nearly perfect. For the first time in three years, yew, our major crop, escaped late spring frosts and apparently will put on an excellent growth. Greenhouse propagation is now going on under a water system. Stands, both in beds and field row, again are nearly perfect.

"Labor costs are up, but the supply is more plentiful. Evergreens

[Continued on page 44.]

# Plant Notes Here and There

By C. W. Wood

I have just come in from the sash house, where I was admiring a batch of *Primula sieboldi*, which had been potted up early for enjoyment indoors. This plant has a wide range of color, mostly in shades of pink, although one kind is almost red and several kinds are pure white. This, it seems to me, is one of the best of early primroses—one that would be embraced with joy by your clients if they could see it.

Why *P. sieboldi* remains so rare in gardens, unless it is because commercial growers do not know it, is not easy to understand. It may be that all the fuss in amateur garden magazines about eastern America being unsuited to primrose culture is at fault. In reality, there are few plants of equal value that are as easy to handle as Siebold's primrose, if three factors, a leafy soil, shade during the hottest part of the day and watering in dry weather, are kept in mind. Given those, the plants will make pretty crumpled leaves, from which spring 8-inch scapes bearing a cluster of large showy flowers, in the range of shades mentioned, over a long period in late spring, later than any of the common spring primroses. They would be valuable for their late flowering alone, even without their other good points.

*P. sieboldi* may be grown from seeds, sown as soon as ripe, or selected kinds may be grown from divisions. I notice that a late list from the northwest contains three named varieties (a light lavender, a soft pink and a pure white) which would have to be propagated in the latter manner.

## Thoughts on Knotweeds.

It is probably not far from the truth to say that there is not a nursery in the country which does not contain at least one species of polygonum. It may be that the owner is entertaining the genus unawares, as in the case of one of the ubiquitous weeds, such as *P. aviculare*. The genus is a large one, containing some 200 species and a large number of varieties, both natural and man-made, and covers much of the northern hemisphere, extending from arctic regions to the tropics. Notwithstanding its cosmopolitan wanderings, in the parts of the world where gardening is farthest advanced many of the best examples are seldom seen except in the hands of specialists and col-

lectors. Obviously, it would be impossible to mention in a brief space all of the good knotweeds, but it may be possible to point out a few good ones that most nurserymen are missing.

A splendid carpeting plant for a cool spot is *Polygonum affine*, the so-called Himalayan fleecflower. The evergreen leaves are mostly radical, the foliage mass supporting foot-tall stems which carry 2 or 3-inch spikes of pink flowers during autumn. The few American lists which carry this sprightly little knotweed do not mention the fact that the leaves take on showy crimson shades in late summer; so I am inclined to doubt that it is a universal trait. If *P. affine* can be depended upon to assume this brilliant foliage in all climates, another good point is added to an otherwise fine plant. I long ago ceased trying to keep it here in northern Michigan, but it should be hardy in all except the coldest sections.

A splendid autumn effect can be had by using *P. campanulatum* as a background. Drooping sprays of pink bells over soft green leaves make a picture without any accompaniment, and the plant is easy to grow in any good soil that is not too dry. To keep it over winter in this cold climate is another matter, for a snowless season usually means its loss. That is true, too, of most Himalayan species.

The Japanese polygonum, *P. fili-*

forme, possesses no more garden value than our native *P. virginianum*. In fact, because of its smaller flowers, it is not so ornamental, but it has a form known as *variegatum* which makes an attractive picture in a border or wild garden. This may grow as high as six feet under good conditions, which means a rich soil and plenty of moisture, the stems being clothed in usually ovate, pubescent leaves, marbled yellow and green. A hardy, long-lived plant, it deserves the attention of garden makers who are not afraid of variegated foliage.

The little Roman knotweed, *P. romanum*, might easily become a pest if it were given the chance. But gardeners who have difficult, dry slopes to cover or are in need of a perfectly prostrate plant, less than an inch tall, for sterile soil among steppingstones, have a friend in this little creeper.

For bold effects in unconsidered places, *P. sachalinense* is difficult to beat. Growing as tall as ten feet and carrying a full complement of large (often a foot or more in length) oval-oblong leaves, the plant is truly tropical in appearance. Yet it is hardy and does well in almost any situation.

It is to be regretted that the huckleberry knotweed, *P. vacciniifolium*, cannot stand the winters this far north because it is one of the best of the alpine species. However, gardeners in more temperate sections can

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# LINING-OUT STOCK

## For Fall 1947 - Spring 1948 Shipment

	100 rate	1000 rate		100 rate	1000 rate
5000 Abies balsamea, 3-yr. T.	\$ 15.00	\$120.00	2000 Pinus nigra (austriaca), 1-yr. edlgs.	\$ 6.00	\$ 50.00
2000 Abies balsamea, TT., 8 to 12 ins.	25.00	200.00	50,000 Pinus strobus, 3-yr. adlgs.	6.00	40.00
1500 Abies fraseri, TT., 8 to 12 ins.	35.00	300.00	25,000 Pinus strobus, 3-yr. T.	9.00	70.00
5000 Acer pal. atropurpureum (seedling strain), 2-yr. T., 6 to 8 ins.	50.00	450.00	10,000 Pseudotsuga douglasii (Caesia strain), 3-yr. T.	12.00	100.00
2000 Acer pal. atropurpureum, 2-in. pots.	30.00	250.00	1200 Pseudotsuga douglasii, 3-yr. TT., 6 to 10 ins.	30.00	250.00
500 Acer pal. atropurpureum, pot grafts.	75.00	.....	5000 Pseudotsuga douglasii (Caesia strain), 3-yr. T.	8.00	60.00
5000 Ampelopsis vetchii, 1-yr., No. 1 adlgs.	5.00	40.00	5000 Pseudotsuga douglasii (Caesia strain), 3-yr. T.	15.00	120.00
1000 Ampelopsis vetchii, 2-yr. T., 12 to 18 ins.	15.00	140.00	1000 Populus alba nivea (Silver Leaf), 1-yr. C.	10.00	90.00
2000 Azalea calendulacea, Tr. from flats.	12.00	100.00	1000 Populus nigra italica (Lombardy), 1-yr. C.	10.00	90.00
2000 Azalea hindogiri, Tr. from flats.	15.00	140.00	2000 Rhododendron carolinianum, Tr. from flats.	18.00	150.00
2000 Azalea kaempferi, Tr. from flats.	12.00	100.00	2000 Rhododendron catawbiense, Tr. from flats.	18.00	150.00
2000 Azalea mollis, Tr. from flats.	12.00	100.00	2000 Rhododendron fortunei, Tr. from flats.	15.00	120.00
3000 Azalea poukhanensis, Tr. from flats.	15.00	140.00	2000 Rhododendron Hybrid, seedlings, Tr. from flats.	18.00	150.00
10,000 Berberis thunbergii, 1-yr. S., row run, 4 ins. and up.	3.00	25.00	1000 Rhododendron Hybrids, named varieties, pot grafts.	75.00	750.00
50,000 Berberis thun. atropurpurea, 1-yr. S., row run, 3 ins. and up.	4.00	35.00	1000 Rhododendron maximum, Tr. from flats.	12.00	100.00
5000 Buxus semp. Newport Blue, 2-yr. T., 6 to 8 ins.	35.00	300.00	500 Spiraea vanhouttei, 1-yr. cuttings.	6.00	50.00
1000 Chamaecyparis filifera, 2-yr. T.	25.00	200.00	5000 Sorbus aucuparia, 1-yr. adlgs.	6.00	50.00
2000 Chamaecyparis pisifera aurea, 2-yr. T., 8 to 10 ins.	35.00	300.00	1000 Taxus andersonii, 2-yr. T.	35.00	300.00
500 Chamaecyparis pisifera aurea, TT., 12 to 18 ins.	40.00	.....	1000 Taxus baecata repandens, 2-yr. T.	30.00	250.00
1000 Chamaecyparis plumosa, 1-yr. T.	15.00	140.00	1000 Taxus canadensis stricta, 2-yr. T.	30.00	250.00
2000 Chamaecyparis plumosa, 2-yr. T., 6 ins. and up.	20.00	180.00	10,000 Taxus cuspidata (cut back), 2-yr. T.	25.00	200.00
2000 Chamaecyparis plumosa, T., 8 to 10 ins.	35.00	300.00	4000 Taxus cuspidata (cut back), 3-yr. T.	30.00	250.00
800 Chamaecyparis plumosa, TT., 12 to 18 ins.	40.00	.....	10,000 Taxus cuspidata (cut back), TT., 6 to 10 ins.	35.00	300.00
200 Chamaecyparis plumosa aurea, 1-yr. T., 8 to 10 ins.	35.00	300.00	2800 Taxus cuspidata (cut back), 5-yr. TT.	45.00	400.00
5000 Chamaecyparis plumosa aurea, 2-yr. T., 8 to 10 ins.	35.00	300.00	15,000 Taxus cusp. (brevifolia) nana, 2-yr. T.	30.00	250.00
1000 Chamaecyparis plumosa aurea, 3-yr. TT.	45.00	400.00	12,000 Taxus cusp. (brevifolia) nana, 3-yr. T.	35.00	300.00
3000 Chamaecyparis squarrosa (K&C str.), 2-yr. T., 8 to 10 ins.	35.00	300.00	2000 Taxus cusp. (brevifolia) nana, TT., 5 to 8 ins.	40.00	350.00
10,000 Cornus florida, selected for grafting stocks.	6.00	50.00	5000 Taxus cusp. (brevifolia) nana, TT., 8 to 10 ins.	45.00	400.00
5000 Cornus florida rubra, pot grafts.	50.00	500.00	8000 Taxus cuspidata browni, 2-yr. T.	35.00	300.00
1000 Cornus florida rubra, 1-yr. T., grafts.	100.00	.....	8000 Taxus cuspidata browni, 3-yr. T.	40.00	350.00
4000 Cornus kousa, 2-yr. T., 18 to 24 ins.	35.00	300.00	5000 Taxus cusp. capitata, cuttings, 2-yr. T.	25.00	200.00
25,000 Daphne cneorum, R.C. from flats.	10.00	90.00	5000 Taxus cusp. capitata (from seed), heavy, 4-yr. T.	75.00	750.00
1000 Deutzia gracilis, R.C. from flats.	6.00	50.00	5000 Taxus cusp. capitata (from seed), 5-yr. T.	80.00	750.00
1000 Elaeagnus angustifolia, 1-yr. S.	6.00	50.00	10,000 Taxus cusp. capitata (from seed), 6-yr. T.	90.00	850.00
2000 Enkianthus campanulatus, Tr. from flats.	12.00	100.00	5000 Taxus cusp. capitata (from seed), heavy, TT.	150.00	.....
500 Euonymus alatus, 1-yr. T.	10.00	.....	10,000 Taxus intermedia (spreading), 2-yr. T.	30.00	250.00
3000 Euonymus radicans carrieri, 2-yr. T., 6 to 10 ins.	30.00	250.00	2500 Taxus intermedia (spreading), 3-yr. TT.	45.00	400.00
500 Euonymus radicans vegetus, rooted cuttings.	10.00	.....	1000 Taxus intermedia (spreading), 3-yr. T.	35.00	300.00
10,500 Euonymus radicans vegetus, 2-yr. T., 6 to 10 ins.	30.00	250.00	10,000 Taxus media (upright), 2-yr. T.	30.00	250.00
500 Euonymus radicans vegetus, 1-yr. T.	25.00	200.00	15,000 Taxus media (Halleran strain), 2-yr. T.	35.00	300.00
1000 Forsythia fortunei, 1-yr. cuttings.	6.00	50.00	5000 Taxus media (Halleran strain), 3-yr. T.	40.00	350.00
500 Forsythia spectabilis, 1-yr. cuttings.	6.00	50.00	13,000 Taxus media hatfieldi, 2-yr. T.	35.00	300.00
500 Forsythia viridissima, 1-yr. cuttings.	6.00	50.00	3000 Taxus media hatfieldi, 3-yr. T.	40.00	350.00
5000 Hydrangea arborescens grandiflora, 1-yr. T.	20.00	180.00	30,000 Taxus media hicksi, 2-yr. T.	25.00	200.00
500 Hydrangea P.G., 1-yr. T.	20.00	.....	12,000 Taxus media hicksi, 3-yr. T.	30.00	250.00
1000 Ilex glabra, 1-yr. T.	16.00	150.00	6000 Taxus media hicksi, 3-yr. TT.	45.00	400.00
2000 Juniperus in grafted varieties, pot grafts.	50.00	.....	3000 Taxus microphylla, 2-yr. T.	35.00	300.00
2000 Juniperus excelsa stricta, 2-yr. T., 5 to 9 ins.	40.00	350.00	5000 Taxus Moon's columnaris, 2-yr. T.	35.00	300.00
1200 Juniperus hibernica, 2-yr. T.	25.00	200.00	3000 Thuja occidentalis, 3-yr. T.	12.00	100.00
5000 Juniperus hibernica, 1-yr. T.	15.00	140.00	2500 Thuja occ. boothii (Best Globe), 2-yr. T.	30.00	250.00
300 Juniperus hibernica, TT., 8 to 12 ins.	30.00	250.00	1000 Thuja occ. boothii (Best Globe), 5-yr. TT.	55.00	500.00
500 Juniperus pfitzeriana, 1-yr. T.	20.00	.....	1000 Thuja occ. compacta (Parson's Globe), 1-yr. T.	18.00	150.00
6200 Juniperus pfitzeriana, 2-yr. T.	30.00	250.00	1000 Thuja occ. compacta (Parson's Globe), 5-yr. TT.	55.00	500.00
1000 Juniperus pfitzeriana, 3-yr. TT.	45.00	400.00	1000 Thuja occ. douglasii pyramidalis, 1-yr. T.	20.00	175.00
500 Juniper squamata meyeri, 1-yr. T.	25.00	.....	500 Thuja occ. douglasii pyramidalis, pot grafts.	35.00	.....
1000 Juniper squamata meyeri, 2-yr. T.	30.00	250.00	800 Thuja occ. douglasii pyr. (spiralis), 2-yr. T.	30.00	250.00
1200 Juniperus virg. keteleeri, 2-yr. T., grafts, 9 to 12 ins.	65.00	650.00	2000 Thuja occ. hoveyi, 1-yr. T.	15.00	140.00
2000 Leucothoe catesbaei, Tr. from flats.	12.00	100.00	5000 Thuja occ. nigra, 1-yr. T.	15.00	140.00
12,000 Ligustrum ovalifolium, 1-yr. C., 12 to 18 ins.	4.00	30.00	20,000 Thuja occ. nigra, 2-yr. T.	30.00	250.00
10,000 Picea alba (canadensis), 2-yr. S.	6.00	50.00	2000 Thuja occ. pyramidalis, 1-yr. T.	25.00	200.00
25,000 Picea engelmanni, 2-yr. S.	6.00	50.00	2000 Thuja occ. pyramidalis, pot grafts.	35.00	350.00
25,000 Picea excelsa, 2-yr. S.	6.00	50.00	13,000 Thuja occ. pyramidalis, 2-yr. tr. grafts, 18 to 24 ins.	60.00	500.00
3000 Picea excelsa (transplanted understocks for grafting).	.....	250.00	1500 Thuja occ. wareana (Siberian Arb.), 2-yr. T.	25.00	200.00
10,000 Picea glauca albertiana, 3-yr. adlgs.	6.00	50.00	2000 Thuja orientalis aurea nana, pot grafts.	35.00	350.00
5000 Picea pungens glauca, 2-yr. adlgs.	6.00	50.00	10,000 Thuja orientalis aurea nana, 2-yr. T., grafts, 8 to 10 ins.	50.00	450.00
50,000 Picea pungens glauca, 3-yr. adlgs.	9.00	70.00	5000 Tsuga canadensis, 3-yr. T.	35.00	300.00
25,000 Picea pungens glauca, 3-yr. Tr.	15.00	120.00	1000 Viburnum burkwoodii, pot grafts.	40.00	400.00
2000 Pieris floribunda, Tr. from flats.	15.00	140.00	1000 Viburnum carlesii, pot grafts.	40.00	400.00
3000 Pieris japonica, Tr. from flats.	15.00	140.00	5000 Weigela rosea, 1-yr. cuttings.	10.00	90.00
2000 Pieris japonica, 2 1/2-inch pots.	25.00	240.00	300 Wistaria sinensis, 1-yr. T., grafts.	50.00	.....
2000 Pieris japonica, 3-yr. Tr.	25.00	240.00			
5000 Pieris japonica, 3-yr. Tr., 8 to 10 ins.	50.00	450.00			
3000 Pinus densiflora, 3-yr. T.	6.00	50.00			
5000 Pinus resinosa, 3-yr. T.	15.00	100.00			
3000 Pinus mughus, 2-yr. adlgs.	6.00	50.00			

**E. D. ROBINSON SALES AGENCY, Wallingford, Conn.**

"A friendly, efficient service"

plant it with the assurance of having a really fine creeper. The plant is made up of numerous creeping stems which carry small huckleberry-like leaves and short spikes of soft pink flowers in late autumn. The rich hues which the evergreen leaves take on as winter approaches are no small part of the plant's charms.

As a rule the knotweeds come readily from seeds. Most may be grown from cuttings taken at a joint or with a heel. The creepers which root at the nodes are easily divided.

#### ***Stellaria Pubera.***

- While recently making up a list of low ground covers for a client for a partly shaded situation, I chanced to remember the giant chickweed, *Stellaria pubera* (you may know it as *arenaria* or *alsine*, for these members of the pink family are badly confused), which I had almost forgotten. It is unfortunate that the plant has acquired the common name of chickweed, because that label is associated in gardeners' minds with a pernicious pest, while our present plant has not a little garden value.

*S. pubera* grows naturally "on shaded rocks from New Jersey and Pennsylvania to Indiana and southward," according to Gray's Manual. When brought to the garden one finds that it does best in a leafy soil with some sun (about half sun here seems to produce the most flowers). Under these conditions it grows about six inches tall, its tuft covering about twice that much ground. From these in May come many starry white flowers with showy brown anthers, which give the flower the appearance of being spotted. After the cycle of blooming and seed bearing is completed, there comes a period of semi-rest, much as one experiences with the native blue phlox—a condition which must be taken into consideration when using in the landscape.

#### **Substitutes for Wallflowers.**

If you live in a section where wallflowers do poorly, you may be interested in this idea. For years I tried to grow wallflowers but never reached the point where I could call it an unqualified success; so at last I said to myself: "If you bemoan your inability to enjoy the beauty and fragrance of wallflowers, console yourself with two *erysimums*, *E. aspernum* (*E. arkansanum*) and *E. perofskianum*, which, according to Miss Jekyll, are scarcely, if at all, inferior to the wallflowers."

The former, a biennial and native of the United States, grows a foot or more tall and produces large heads

[Continued on page 48.]

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**SNOWDROPS  
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## PEACH TREES

Afterglow (N. J. 84)  
Belle of Georgia  
Brackett  
Champion  
Cumberland  
Dixie Gem  
Dixie Red  
Elberta  
Early Elberta  
Early Halehaven (U. S. Plant Pat. 325)  
Golden Jubilee  
Gemmer's Late Elberta  
Golden East (N. J. 87)  
Greensboro  
Halehaven  
J. H. Hale  
Hiley  
June Elberta  
Krummel's Late October  
Lizzie  
Rochester  
Red Bird  
Redhaven  
Rio Oso Gem (U. S. Plant Pat. 84)  
Salberta  
Sullivan Early Elberta  
Shippers Late Red  
Sunhigh (N. J. 82)  
Salway  
Summercrest (N. J. 94)  
Southhaven  
Triogem (N. J. 70)  
Vedette  
Valiant  
White Heath Cling

### 1-Year Budded Peach Trees

6 to 8 ft., 1 to 1 1/4-in. cal.  
6 to 7 ft., 7/8 to 1-in. cal.  
5 to 6 ft., 11/16 to 7/8-in. cal.  
4 to 5 ft., 9/16 to 11/16-in. cal.  
3 to 4 ft., 7/16 to 9/16-in. cal.  
2 to 3 ft., 5/16 to 7/16-in. cal.  
2 to 3 ft., 1/4 to 5/16-in. cal.  
18 to 24 ins.

## NECTARINE TREES

Hunter Surecrop

### 1-year Budded

6 to 7 ft.  
5 to 6 ft.  
4 to 5 ft.  
3 to 4 ft.  
2 to 3 ft.

## APPLE TREES

Bright Red Jonathan  
Double Red Baldwin  
Delicious  
Duchess of Oldenburg  
Grimes Golden  
Hyslop (Crab)  
Jonathan  
Lodi  
Lowry  
Mammoth Black Twig (Paragon)  
McIntosh Red  
Northwestern Greening  
Red Summer Rambo  
Red Gravenstein  
Red Yorking (U. S. Plant Pat. 125)  
Red Spy  
Rome Beauty  
Red Lowry  
Red Rome Beauty  
Red Duchess  
Scarlet Red Stayman  
Solid Red Winesap  
Summer Rambo  
Smokehouse  
Starr  
Super Red McIntosh  
Stayman Winesap  
Twenty Ounce  
Triple Red Delicious  
Winesap  
Williams Early Red  
Wealthy  
Yellow Transparent  
York Imperial  
Yellow Delicious

### 1-year Budded Apple Trees

5 to 6 ft.  
4 to 5 ft.  
3 to 4 ft.  
2 to 3 ft.  
1 to 2 ft.

## SOUR CHERRY TREES

Early Richmond  
English Morello  
Montmorency

### 1-year Budded

4 1/2 ft. and up, 11/16-in. and up.  
4 ft. and up, 9/16 to 11/16-in.  
3 to 4 ft., 7/16 to 9/16-in.  
2 to 3 ft., 5/16 to 7/16-in.  
2 ft. and up, 1/4 to 5/16-in.  
1 to 2 ft.

## PLUM and PRUNE TREES

Abundance  
Burbank  
Bradshaw  
Big Mackey Damson  
Formosa  
Grand Duke Prune  
Italian Prune (Fellenberg)  
Lombard  
Methley  
Red June  
Santa Rosa  
Stanley Prune  
Satsuma  
Shropshire Damson  
Wickson  
Yellow Egg

### 1-year Budded

6 to 7 ft.  
5 to 6 ft.  
4 to 5 ft.  
3 to 4 ft.  
2 to 3 ft.  
1 to 2 ft.

## PEAR TREES

Bartlett  
Beurre Bosc  
Beurre d'Anjou  
Clapp's Favorite  
Douglas  
Kieffer  
Koonce  
Seckel  
Worden Seckel

### 2-year and 1-year Budded

5 to 6 ft.  
4 to 5 ft.  
3 to 4 ft.  
2 to 3 ft.  
1 to 2 ft.

## APRICOT TREES

Alexander  
Early Golden  
Moorpark  
Superb

### 1-year Budded

5 to 6 ft.  
4 to 5 ft.  
3 to 4 ft.  
2 to 3 ft.  
1 to 2 ft.

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# Coming Events

## MEETING CALENDAR.

July 21, National Landscape Nurserymen's Association, Hotel Statler, Boston, Mass.

July 21 to 24, American Association of Nurserymen, Hotel Statler, Boston, Mass.

August 6, Pennsylvania Nurserymen's Association, Fairview Evergreen Nurseries, Fairview.

August 12 to 14, Southern Nurserymen's Association, Atlanta, Ga.

August 13, Connecticut Nurserymen's Association, Lake Compounce.

August 14, Indiana Association of Nurserymen, Ernst Nurseries, Muncie.

August 14 and 15, West Virginia Nurserymen's Association, Charleston.

August 14 to 16, New York State Nurserymen's Association, Ithaca and Geneva.

August 17 to 19, Virginia Nurserymen's Association, George Mason hotel, Alexandria.

August 18 to 22, National Shade Tree Conference, Hotel Cleveland, Cleveland, O.

August 21 and 22, Michigan Association of Nurserymen, Warm Friend tavern, Holland.

August 28 and 29, Ohio Nurserymen's Association, Mansfield-Leland hotel, Mansfield.

September 3 to 5, Texas Association of Nurserymen, Galvez hotel, Galveston.

September 29 to October 1, California Association of Nurserymen, U. S. Grant hotel, San Diego.

October 23 to 25, American Horticultural Council, Hollenden hotel, Cleveland, O.

## SOUTHERN ASSOCIATION PLANS ANNUAL MEETING.

The Southern Nurserymen's Association will hold its annual meeting August 12 to 14, at Atlanta, Ga., according to W. C. Daniels, secretary of the association.

## NEW YORK DATES.

Dates to be reserved on the calendar of members of the New York State Nurserymen's Association are August 14 for the school for nurserymen at Cornell University, Ithaca; August 15 for the summer meeting at Ithaca, and August 16 for the summer meeting at the state agricultural experiment station at Geneva.

## WEST VIRGINIA DATES.

The West Virginia Nurserymen's Association will hold its summer meeting August 14 and 15 at Charleston, announces F. Waldo Craig, secretary.

## SHADE TREE CONFERENCE.

The National Shade Tree Conference will hold its twenty-third annual convention August 18 to 22 at Cleveland, O.

Scheduled for emphasis and dem-

onstration is the subject of mist spraying, which has aroused more interest than any other single topic in recent years. There will be a symposium by the leading authorities in the country, including Dr. S. F. Potts, who is credited with most of the pioneering work in the field.

## MICHIGAN DATES.

The Michigan Association of Nurserymen will hold its summer meeting August 21 and 22 at the Warm Friend tavern, Holland. The winter meeting will be held January 28 to 30, 1948, at the Hotel Statler, Detroit.

## MICHIGAN CONFERENCE.

A 2-day conference of nurserymen, landscape gardeners and arborists will be held July 7 and 8 at Michigan State College, East Lansing. It is open to any member of these three fields in the state of Michigan.

Those attending will be divided into two groups for some of the lectures and tours. July 7 there will be a general lecture at the variety trial grounds in the horticultural gardens on roses, dahlias and gladioli, by Prof. C. E. Wildon. Talks on experimental propagation will be given by Dr. Marcus Maxon.

The first group will be shown, and hear talks on, the following places of interest: Cherry budding blocks and virus indexing, by Prof. Donald Cation; horticulture orchards, by Prof. H. A. Cardinell; dwarf apple orchards, stool blocks and East Malling understocks, by Dr. H. B. Tukey; small fruits and grapes, by Dr. N. L. Partridge and Dr. J. E. Moulton; weed control plots, by Dr. C. L. Hamner; campus nursery, hardwood cutting blocks and coldframes, by Prof. Milton Baron.

The second group will be taken on a tour of the campus by Prof. C. E. Morris and hear talks on the following: Ornamental trees and shrubs, by Prof. C. S. Gerlach, and shade tree repair and cambial injury treatment,

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by Carl Fenner, a Lansing city forester.

The nurserymen's round table that evening will feature short talks and discussion periods on these subjects: Lawn management, Dr. James Tyson; nursery insects, Prof. Ray Hutson; nursery diseases, Dr. F. C. Strong; pneumatic fertilization, Prof. J. B. Gartner; mulches and moisture relations, Dr. L. M. Turk; plant nutrition, Dr. H. L. Carolus; microclimates, Dr. N. L. Partridge; saving nursery soils, E. C. Sackrider; nursery storages and specialty marketing, Dr. R. E. Marshall; plant hormones, Dr. C. L. Hamner; and the function of transpiration, Prof. H. C. Beeskow.

The following day each group will substitute the other's Monday program. In addition, general tours to, and talks on, the following will be given: Forestry nursery, Shaw Lane seedbeds, transplant areas, nursery equipment, portable irrigation system and Beal Botanic Gardens.

If the weather forces cancellation of the scheduled programs, a series of illustrated lectures of special interest will be given indoors.

#### TEXAS ASSOCIATION MEMBERSHIP MONTH.

The president of the Texas Association of Nurserymen, Jesse Breedlove, Tyler, Tex., has proclaimed August to be membership month for the Texas Association of Nurserymen in view of the increasing need for a larger membership in both the Texas and the American associations. It is said: "In union there is strength." It is equally true that in union there are a wisdom and a leadership that will insure benefits to all who will cooperate and work together for the common good of our organizations and our customers," states Mr. Breedlove.

"More than 3,000 persons and firms in the Lone Star state are eligible for membership in the Texas association and stand in need of the help they can receive from an organization devoted exclusively to their trade interests," he says.

"Every nurseryman and dealer in plants owes his very best efforts to his customers. To deliver his best and to serve his customers properly, he needs to have every possible contact, to use every possible means to broaden and enrich his knowledge and experience for the benefit of those whom he serves. No man will be satisfied with mediocre abilities, with poor salesmanship, poor products, poor display or poor management. By becoming a part of a great

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We also will have a fairly complete line of **Fruit Trees**, consisting of **Apple**, assorted varieties, both 1 and 2-year, and **Multiple Apple; Cherry and Pear**, 1 and 2-year; **Apricot and Plum**, June Buds; **Peach**, June Buds and 1-year cutback June Buds, assorted varieties; **Pecan**, assorted varieties and grades; **Black Walnuts, Butternuts and Hickoria** in all grades up to 6 feet; **Grapes**, assorted varieties, 1 and 2-year; **Asparagus, Mary Washington and Paradise**, 1 and 2-year.

We will be glad to quote attractive prices for early orders on **Privet, Amur River North and California**, both 1 and 2-year, row run, or on grades, in carload or truckload lots, or lesser quantities.

See our frequent offerings in the American Nurseryman. Our Fall Trade List will be mailed in early September.

Will be glad to have a visit with you at the Hotel Statler during the Boston Convention of the A. A. N.

We suggest you visit us at any time and look over our nursery. While our supply of stock, especially finished Evergreens, is limited, we will have a fairly good assortment to offer for the coming season. We suggest early orders to assure getting what you need before the supply is exhausted.

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#### FOR EARLY FALL 1947

1000 **Taxus Cusp. Capitata**, in sizes from 18 to 24 ins. to 3 to 3½ ft.

(Broad chunky specimens.)

3000 **Thuja Occid. Pyramidalis**, in sizes from 2½ to 3 ft to 3½ to 4 ft. Many other varieties of evergreens in salesyard sizes.

Superior balling.  
Digging starts August 18.

No boxing.  
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#### SHEPARD NURSERIES

Skaneateles, N. Y.

organization such as the T. A. N. or the A. A. N., he makes available to himself all the aggregated experience and good methods of the associations in their conventions and cooperative enterprises."

#### Bond Offered.

At the December 9 meeting of the executive committee, it was decided to offer a \$50 United States government bond to the T. A. N. member who submits the largest list of acceptable members by the time of the Galveston convention, September 3 to 5, with a minimum of fifteen members required for a contestant to qualify. Applications for membership should be sent to the membership chairman contacting you, or to Murray Ramsey, Ramsey's Austin Nursery, Austin, Tex.

"The program for the Galveston convention is shaping up well and gives promise of becoming one of the best we have ever had," adds Mr. Breedlove. "Most of the speakers for the meeting have accepted the invitations to be with the nurserymen. The subjects range over a wide territory, floriculture, ornamentals, chemicals, landscaping, etc. Such a varied program should provide something of keen interest to everyone attending the convention."

#### IOWA STATE EXPOSITION.

The annual Little Midwest Horticultural Exposition will be presented November 15 to 17 by the students of horticulture at Iowa State College, Ames. The exposition is one of the largest in the country and is staged entirely by the students. Held in co-operation with the Iowa Horticultural Society and the Affiliated Garden Clubs of Iowa, the show will be free to the public.

#### B. S. PICKETT RETIRES.

After twenty-four years' service, Prof. B. S. Pickett retired June 30 as head of the department of horticulture and the horticultural section of the experiment station at Iowa State College.

Although retiring as department executive, he will continue as professor of horticulture.

He is succeeded by Prof. E. S. Haber, of the horticultural and experiment station staff.

Under Professor Pickett's direction the department of horticulture at Iowa made a distinguished record. The horticultural farm at Ames was planned and planted under his supervision, and the departmental staff has introduced numerous varieties of ap-



## PRINCETON NURSERIES

Invites you to visit us this summer.

See us at convention time if possible, or come at your convenience, but be sure to come.

We have a very complete line of **QUALITY ORNAMENTAL STOCK** including many hard-to-find items.

We will have a nice lot of **PEACH TREES** in standard varieties for next Fall or Spring.

## PRINCETON NURSERIES

PRINCETON, N. J.

## 20,000 Double-Flowered Day Lilies

Reduced for August-September Clearance.

**Hemerocallis Kwanso Flore-Pleno.**

The only double day lily known. It is almost a triple. Prize-winner of the Royal Horticultural Society. Large, double, rich golden-bronze flowers in midsummer. No other garden plant is more reliable, more self-sufficient.

	Per 100	Per 1000
1-year field plants.....	\$ 8.00	\$ 60.00
Large blooming-size plants.....	12.00	100.00

Beetle certificates furnished.

Cash with order, please.

**BROOKFIELD GARDENS, Delaware, N. J.**

## MAXWELL, BOWDEN & RICE,

Incorporated

**Wholesale Nurseries**

GENEVA, NEW YORK

Phone 2974

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**EVERGREENS  
SHADE TREES**

**SHRUBS, VINES  
HEDGE PLANTS, etc.**

*In good assortment.*

**Jackson & Perkins Co.**  
NEWARK, NEW YORK STATE

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Leading wholesale source for  
Nursery Stock.

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Splendid Stock

Write for Special Quotations

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For your Quality Evergreens

We specialize in yews, from lining-out sizes to specimens for high-class landscape work. We also grow a quality line of various other hardy evergreens. See us at the convention or write for prices.

**LEGHORN'S EVERGREEN NURSERIES**  
Geor Street, Cromwell, Conn.

## EVERGREEN LINERS

Taxus, many varieties.

Potted liners.

Ask for our latest price list.

**HEASLEY'S NURSERIES**  
Freeport Road, Butler, Pa.

# W BLUE LABEL DAHLIAS W

Our planting this year consists of approximately 1,000,000 roots, and we are hoping to be able to take care of our regular customers as usual; but we urge all such customers to get their reservations in as early as possible to protect themselves on next spring's requirements.

We shall start checking our fields within the next few days, and after this job is completed, we shall be ready to estimate our crop and quote prices on same. Reservation orders will be accepted without deposit or other obligation on your part, such reservations to be subject to contingencies which may arise regarding labor, material, etc., and with the understanding that shipping orders will be taken care of in the order in which reservation orders are placed, regardless of date of shipping order. That is, date of reservation order will determine priorities in shipping orders.

No boxed dahlias for counter trade will be available this year, but we shall offer some very fine assortments of Wrapped Dahlias for Counter Trade, which will provide the retail dealer with good stock which can be sold at very moderate prices and a handsome profit.

We shall be glad to hear from our customers at any time and promise you that we shall do our best to supply you with our usual high quality of dahlia roots at all times.

Remember we are by far the world's largest dahlia growers and for years have served most of the leading mail-order seed and nursery houses of the country.

**Our new catalog will be out on or before August 1.**

**If you do not receive your copy, write us at once.**

## WAYLAND DAHLIA GARDENS Box A. N. WAYLAND, MICH.

ples, peaches, pears and plums and done extensive work with grafting.

Professor Pickett helped organize the National Apple Institute in 1934, served as president of the Iowa Horticultural Society and for the past three years has been special consultant in the United States Department of Agriculture.

### NEW OHIO CHIEF.

Succeeding the late Dr. Joseph Gourley, Dr. Freeman S. Howlett has been named chief of the combined departments of horticulture at Ohio State University, Columbus, and the Ohio agricultural experiment station, Wooster. A graduate of Cornell University, where he received his Ph. D. in 1925, he has been with the experiment station since 1924 and with the university since 1929. A member of numerous honorary societies, Dr. Howlett is currently secretary-treasurer of the American Society for Horticultural Science.

WELLS M. DODDS is now assisted by his sons in his nursery and florists' business at North Rose, N. Y., and the firm name has been changed to Wells M. Dodds & Sons.

## RED-LEAVED BARBERRY

Fall 1947—Spring 1948

	Per 100	Per 1000	Per 1000	Per 1000
		1 to 5000	5 to 25,000	25,000 up
3 to 6-in. seedlings . . .	\$ 3.50	\$ 27.50	\$ 23.50	\$22.00
6 to 9-in. seedlings . . .	5.00	42.50	40.00	37.50
9 to 12-in. seedlings . . .	8.75	80.00	75.00	....
9 to 12-in. transplants. .	13.50	115.00	100.00	....
12 to 15-in. transplants. .	20.00	175.00	150.00	....
15 to 18-in., 3-yr. trans..	25.00	225.00	200.00	....
18 to 24-in., 3-yr. trans..	32.50	300.00	270.00	....
2 to 2½-ft., 3-yr. trans..	50.00	400.00	....	....

### FAIRVIEW EVERGREEN NURSERIES

Fairview, Pa.

### HARDY NATIVE COLLECTED

Ferns, Orchids, Lilies, Wild Flowers, Vines, Evergreens, Shrubs and Trees. Lining-out stock.

Write for Wholesale Trade List.

**ISAAC LANGLEY WILLIAMS**  
P. O. Box 352 Exeter, N. H.

### KOSTER NURSERY

Bridgeton, N. J.

### OUR TASK

Our task is twofold: To help you to rebuild and get back to normal as rapidly as possible, and to do the same ourselves. We are propagating to capacity and welcome your inquiries on liners for this fall and for spring 1948 delivery.

## New Products

### NEW KNAPSACK DUSTER.

A new, more efficient Stauffer knapsack duster is now available, according to the manufacturer, the H. D. Hudson Mfg. Co., Chicago.

This unit embodies many desirable features of convenience and utility that assure the user of faster, easier and economical dusting.

It has a well padded back rest and wide shoulder straps which are adjustable. Operating handle is conveniently located and is sensitive to the slightest pressure.

Another outstanding feature is the "blast" or "puff" control provided by the discharge feed lever. It can be instantly set to provide a large uniform "blast" for covering entire plants or for a small "puff discharge" which places the dust in the heart of the plant.

An extra-large tank has a capacity for twenty pounds of dust. It reduces frequency of filling and assures a real saving in labor and time.

Bellows, which normally get the heaviest amount of wear in a duster, are now one of the longest-wearing parts in the Stauffer knapsack duster. These are made of a new special Du Pont material which is flexible yet tough and mildew-resistant.

### CRAB GRASS CONTROL.

Scientific control of crab grass is now an actuality. With the marketing of TAT C-LECT, a trade name for PMAS, a chemical compounding of an organo mercurial complex, homeowners will be able to abolish crab grass without damaging common lawn grasses.

The compound was discovered last year at Rhode Island State College, where Drs. J. A. De France, F. L. Howard and H. L. Keil were experimentally searching for fungicides to be used in the control of fungus diseases on putting greens. Among the many chemicals tested was PMAS, a water-soluble phenyl mercury acetate formulation. It was soon noticed that not one crab grass plant developed in the areas treated with PMAS and, further, that the compound possessed phenomenal selective qualities, as it did not harm common grasses.

During the winter, the tests were rechecked by treating forced germinated crab grass, but it was found that stronger concentrations were required to accomplish complete destruction within a few weeks. This

indicated that the results at Rhode Island, where applications at regular 10-day intervals were made, were obtained because of a residue of PMAS in the soil to such a degree that its selective toxic effect on crab grass was noticed.

This past spring, the O. E. Linck Co., Clifton, N. J., which was given an option to market PMAS exclusively, conducted actual field tests at Tifton, Ga., where crab grass was actively growing. The company's research staff found that the selective quality of PMAS in destroying crab grass in its seedling and mature states actually exists. The required concentration for these tests, however, was much higher than that needed in greenhouse tests, and yet these more powerful concentrations were equally safe for normal turf grasses. Another observation made was that two treatments at intervals of seven to ten days permitted the lowest concentration and yet achieved the most effective control. On fully matured plants a third treatment was usually required.

Soil saturation was discovered to be essential, since it was found that

### We Offer—

**EVERGREENS**—In a large assortment of **PYRAMIDAL** and **GLOBE ARBORVITAE**, **PFITZER JUNIPER** and **YEW**s in grades at attractive prices. **SOME LARGE SPECIMEN EVERGREENS, SHRUBBERY** and **SHADE TREES**.

Mail want list for prices.

**THE WESTMINSTER NURSERIES**  
Westminster, Md.

### Evergreens

### Barberry

### Privet

Write for wholesale price list.

### GARDNER'S NURSERIES

Rocky Hill, Conn.

### BOXWOOD

500 *Sempervirens*, perfect specimens.  
2 to 3½ feet in diameter.  
Come and dig them; price right.

### CONESTOGA GARDENS

Ira H. Landis  
Box 383 Lancaster, Pa.

PMAS was toxic to crab grass principally through root absorption. The residue after the first two treatments seemed to destroy most of the germinating seeds. The seeds which did emerge died after a day or two, indicating that there was sufficient strength to develop the leaf, yet as the root grew, it picked up some of the toxic residue in the soil. Therefore, this residuary element was deemed essential, since chemicals without it would have to be applied repeatedly in order to kill crab grass seeds as they endeavored to germinate.

Crab grass is unique in that it requires sunlight for germination; it will not develop in shaded areas. Homeowners, attempting to produce an artificial shade, try to grow a thick, heavy lawn. If bare areas in the lawn, however, are reseeded in the spring, the new grass has no chance to become firmly established before crab grass appears. The ideal time for

### LINING-OUT STOCK OUR SPECIALTY....

**Shade Tree Whips . . . a**  
timely finished product saving  
2 to 4 yrs.' growing effort  
. . . excellent variety.

A very complete line of  
**ORNAMENTAL TREES, SHRUBS**  
and **EVERGREEN SHRUBS**,  
including many scarce items.

**THOMAS B. MEEHAN CO.**  
Dresher, Pa.

## HESS' NURSERIES

Mountain View  
New Jersey

### BOBBINK & ATKINS

Nurserymen and Plantsmen

Visitors always welcome.

Paterson Ave. E. Rutherford, N. J.

reseeding a lawn is in August, and this is now possible, with the aid of this new chemical which kills crab grass and effectively prevents its returning to lawns.

PMAS has been put on the market under the trade name of TAT C-LECT by the O. E. Linck Co. and may be applied in a water solution by means of a watering can or sprayer. It should be applied on a warm, dry, clear sunny day, since it kills through the root system, and heavy rainfall immediately following application will reduce its efficiency. The maximum coverage per gallon of finished spray should not exceed 100 square feet.

#### TREE-PLANTING MACHINE.

The Lowther tree planter was designed by foresters to meet the pressing need for reforestation of vast barren areas long neglected, but now of great importance because of accelerated uses of forest products. It was originally designed to meet the need in the south for a mechanical means of restocking cutover lands where the soil is filled with heavy roots and old stumps. Therefore, the construction is extremely rugged, but, at the same time, it has been kept simple. The Lowther tree planter has proved its adaptability to practically all sections of the country, having had extensive use throughout the south during the past winter and having been tested in the Tennessee valley and the central and lake states.

Briefly, the new tree planter consists of a narrow, rectangular frame about six feet long, the front end of which is mounted on sturdy wheels equipped with heavy-duty 6.00x16 tires and the rear end on two 16-inch wheels with pneumatic tires which serve as packing wheels. A seat for the operator is mounted above and immediately behind the packing wheels. Suspended within the frame and hinged to it at the front end is a trenching and planting unit consisting of a heavy, 28-inch disk colter and a unique plow into which planting guides are built. This unit floats freely from the front suspension and may be raised and lowered by means of a fast-acting hydraulic ram activated by a hand pump located within easy reach of the operator.

The tree planter can be readily handled under all conditions by a tractor of thirty horsepower or more. It can be drawn by any type of farm tractor and has been drawn by a jeep under favorable conditions. In operation, when the hydraulic lift is released, the colter and plow will set-

# BUNTINGS'

ARE HEADQUARTERS  
FOR HIGH-QUALITY STRAWBERRY PLANTS  
AT REASONABLE PRICES.

Strawberry plants are a specialty with us. We have a separate organization, storage and packing department set up exclusively to handle Strawberry orders. Our modern cold-storage plant assures good dormant plants for late orders. Ask for our pack-out proposition if interested in having plants shipped direct to your customers.

## BUNTINGS' NURSERIES, INC.

Box 3

Selbyville, Delaware

You and your friends are cordially invited to call at—

## BROWNELL ROSE RESEARCH GARDENS

Little Compton, R. I.

to see on display old-established plants of

## SUB-ZERO HYBRID TEAS

and

## HARDY CLIMBERS

See the men budding them and the school girls and college girls hybridizing them, work that for 35 years has sought roses that will live for decades, even where winters are cold.

**Directions**—Go to Fall River, then to Seacormet and then get out at the house. It is about a 2-hour run from Boston, and 1 hour from Providence.

	Per 100	Per 1000
<b>Taxus Andersoni</b> , 4 to 6 ins., Pots.....	<b>\$20.00</b>	.....
<b>Taxus Andersoni</b> , 6 to 8 ins., Pots.....	<b>25.00</b>	.....
<b>Taxus Browni</b> , 1-yr., Pots.....	<b>22.50</b>	.....
<b>Taxus Hunnewelliana</b> , 1-yr., Pots.....	<b>22.50</b>	<b>\$200.00</b>
<b>Taxus Hunnewelliana</b> , 2-yr., Pots.....	<b>25.00</b>	<b>225.00</b>
<b>Taxus Hicksi</b> , Pots.....	<b>22.50</b>	<b>200.00</b>

These well established stocky Taxus can be lined out any time without risk. Grown and hardened outside. Will ship promptly.

**BURTON'S HILL TOP NURSERIES, Casstown, Ohio**

## EVERGREENS

B&B and Lining-Out Stock. Fine Northern-grown Evergreens.  
Send Us Your Evergreen Want List.

## BROWN DEER NURSERIES

Operated by **HOLTON & HUNKEL CO.**

P. O. Box 1747

Milwaukee 1, Wis.

# 1,500,000

Fruit Trees, General Line.

Combination Fruit Trees.

Flowering Shrubs

Shade Trees

Roses

Be wise, shop around; get our prices before you buy. Watch the mail for our early summer wholesale list.

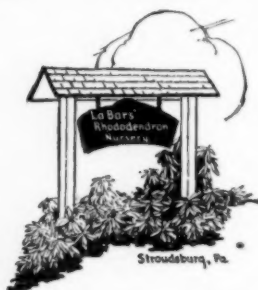
## SISK NURSERIES

Winchester, Tenn.

We solicit  
your inquiries

## SHERMAN NURSERY COMPANY

Charles City, Iowa



New Crop, 2-Year, Field-Grown

## BUDDED ROSES

Our specialty

A good assortment of Hybrid Teas and Climbers.

Write for list. Liberal discounts on early bookings. Our prices will be in line with other reputable growers.

R. C. Wilson, Owner

## ROSE LAWN NURSERIES

Box 295

Winnaboro, Texas

## HEMLOCKS

KALMIA, RHODODENDRON, AZALEA

## CURTIS NURSERIES

CALICOON

NEW YORK

tle into the soil by both weight and the natural suction of the plow. The plow is hung to operate at all times at a uniform depth of eight inches, and the colter, which is set close to the plow point, cuts a track one inch deeper, or nine inches. The plow, at a depth of eight inches, following the 9-inch cut of the colter, opens a narrow furrow, not by compressing the soil outward or turning the soil over as in conventional plows, but by lifting the entire section of soil upward and slightly outward. The soil is then held in this position by the planting guides of the plow until planting is accomplished. The planting guides are parallel wings of heavy sheet metal built into the rear of the plow and spaced two inches apart.

The operator sits astraddle the narrow frame and plants the tree by placing the roots within the planting guides and then moving the plant out of the guides until it is gripped by the soil, which is then forced back to its original position by the packing wheels located immediately to the rear of the planting guides. Depth of planting is controlled by the depth to which the tree is inserted within the planting guides.

Extensive use throughout the south has proved that the Lowther tree planter will work satisfactorily on all soil types, including slopes up to thirty per cent.

Results at the DeSota National Forest, where five of these machines are now owned and operated by the United States Forest Service, and reports from a number of larger forest-operating companies in the south have established a planting rate of 10,000 trees per day. The highest production reported is 14,000 trees in one day, using a 3-man crew.

The Harry A. Lowther Co., Chicago, Ill., is now examining the possibilities of adapting the tree planter to other types of plant materials, such as ornamental nursery stock, bulbs and roots.

### WOUND DRESSING.

Control of canker stain of plane trees, especially troublesome in the east, is sought in part by disinfecting pruning tools, otherwise a means of spreading the causal fungus. The recommended time for pruning is between December 1 and February 15 if possible. If pruning is done at any other time, all pruning tools should be disinfected before being used on healthy plane trees. Denatured alcohol such as used for antifreeze is a satisfactory disinfectant when used as a dip or swab. Climbing ropes can be

## JUNIPERUS VIRGINIANA (Red Cedar)

4 to 6 inches,	Per 100	Per 1000
1-yr. tr. . . . .	\$4.00	\$35.00

6 to 9 inches,		
1-yr. tr. . . . .	6.00	50.00

UNDERSTOCK,		
Grafting Grade	7.00	65.00

Our supply of this stock is limited, and we advise you to place your order now. We guarantee satisfaction, or your money back.

VISITORS WELCOME.

## O. H. PERRY NURSERY CO.

Box 545

McMinnville, Tenn.

Every day in the year somebody learns it is possible, practical and profitable to plant **Verhalen container-grown plants.**

Write for a list of our plants in cans.

## VERHALEN NURSERY COMPANY

Scottsville, Texas

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## ORNAMENTAL SHRUBS SHADE TREES, VINES FOREST TREE SEEDLINGS LINING-OUT STOCKS

## Holland-Grown Nursery Stock

Shrubs and Trees,  
including liners.  
Rhododendrons and Azaleas  
Hardy Perennials  
Peonies

NOVELTIES IN ALL LINES

Ask for wholesale catalog.

## F. J. Grootendorst & Sons

Boskoop, Holland

Growers and exporters since 1903.

## NORTHERN COLLECTED EVERGREENS

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PLANTS

SHRUBS

## WILLIAM CROSBY HORSFORD

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## C. M. Hobbs & Sons, Inc.

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*Established 1875*

**AMERICAN and  
MOLINE ELM,**  
up to 2-inch caliper.

**SOFT MAPLE,**  
up to 2-inch caliper.

**PEACH and APPLE,**  
in carlots.

General line of  
**Shade Trees, Shrubs, Evergreens  
and Fruit Trees.**

## LAKE'S SHENANDOAH NURSERIES

Shenandoah, Iowa.

*Wholesale growers of  
a fine assortment of*

**GENERAL NURSERY STOCK**  
Your inquiries will be appreciated.

## WHOLESALE GROWERS

of Shade Trees, Evergreens, Deciduous Shrubs, Roses and Lining-out Stock.

Send us your list of Fall, 1947, and Spring, 1948, requirements.

Visitors Welcome.

**ONARGA NURSERY CO., INC.**  
Onarga, Ill.

## WHOLESALE ROSE GROWERS

for over 30 years.

Write for list of varieties  
and prices.

**L. C. HOUSE & SONS**  
Route 5 Tyler, Texas

## Old English BOXWOOD

(Wholesale Only)

All slow-grown dense specimens. Red clay soil. Priced by height and spread. 18x12 Ins. to 24x22 Ins. in unlimited quantities. Also large specimens up to 5 ft. Write for price list.

**BOXWOOD GARDENS**  
Mrs. R. P. Royer High Point, N. C.

disinfected by exposure to formaldehyde vapor for three hours.

If a wound dressing is necessary, according to the United States Department of Agriculture, a paint should be used of the gilsonite-varnish type into which two-tenths per cent phenyl mercury nitrate has been mixed. The phenyl mercury nitrate makes the paint unable to carry the fungus.

Arborists have been informed that a tree wound paint conforming to these recommendations is made by the W. J. Sutcliffe Co., East Rutherford, N. J., at approximately \$1.75 per gallon. In ordering specify: "Gilsomite varnish (federal specifications TT-51-A) fortified with two-tenths per cent phenyl mercury nitrate."

This mixture is poisonous. Skin contact should be avoided; wipe off immediately if contact is made.

Applications of this paint will not interfere with the completeness of callusing, although this may be slightly retarded. The paint is quite resistant to deterioration by weathering.

This wound paint was reported by Arborist's News as not interfering with good callusing when experimentally applied to elm, tulip poplar, Norway and silver maple, white and pin oak and apple. However, the usefulness of this paint on these species should be determined by the arborist.

## GARDEN LIGHT.

Where such a light is desired for safety or for nocturnal beauty, the Cannon electric Pathfinder light may be used to illuminate driveways, garden paths, nursery sales grounds and the like. The light has a dome top, consisting of a housing separated by white or colored lens which directs the light beams downward. For special directional lighting, colored lens, such as green, may be added to the upper portion of the lens.

The lamp section is mounted on a conduit pipe, in the length required by the location and application, and has a canopy base meeting the ground level. Under the canopy base are the outlet box and a spike for anchoring into the ground.

The manufacturer of this product, the Cannon Electric Development Co., Los Angeles, Cal., also makes a ball-bearing lawn and garden sprinkler with a propeller head. Eight oblong jets in the head project fine streams of water at different angles against a baffle so as to atomize the spray and promote a maximum absorption into the soil without excessive runoff.



Growers of a complete  
line of deciduous and  
coniferous species.

**JEWELL NURSERIES, INC.**  
Lake City, Minn.

## Northern-grown Stock

Send  
for  
Price  
List.

**J. V. BAILEY NURSERIES**  
St. Paul 6, Minn.

## ORNAMENTALS TREES SHRUBS EVERGREENS

Wholesale growers of a  
general assortment for  
the best landscape plantings.

**BRYANT'S NURSERIES**  
Princeton, Illinois



## EVERGREENS

Growers of Quality Evergreens  
Lining-out Stock a Specialty  
Write for Trade List

**EVERGREEN NURSERY CO.**  
Established 1864 : STURGEON BAY, WIS.



Wholesale growers of the best  
Ornamental Evergreens,  
Deciduous Trees,  
Shrubs and Roses

Write for our current trade list.

**THE KALLAY BROTHERS CO.**  
Fairbairnsville, Ohio



## CALIFORNIA ASSOCIATION OF NURSERYMEN

JACK LINCKE, Executive Secretary

215 West Seventh St., LOS ANGELES 14, CALIF.

### ASSOCIATION PROGRESS.

Charles G. Armstrong, president of the California Association of Nurserymen, recently completed a series of meetings with the southern California chapters of the organization. During a week's trip, Mr. Armstrong spoke to the members of the Los Angeles, Centinella Valley, San Diego, San Fernando and Tri-County chapters. He was accompanied on his trip by Jack Lincke, executive secretary of the association.

In addition to organizational matters, Mr. Armstrong complimented the southern chapters on their remarkable 2-year growth in membership. They have now almost seven times as many members as two years ago. Discussions were held with the state's principal growers in the south in regard to the material to be exhibited at the California state fair, to be held at Sacramento, August 28 to November 7. This will be the first time that the association as a unit has made such an exhibit.

"In my opinion," said Mr. Armstrong, in addressing these groups, "few other like groups can boast of the cooperative and coordinated action of this state's nurserymen banded together under the auspices of the California Association of Nurserymen."

"I doubt, however, if all of you realize just how many meetings, telephone calls, telegrams, letters, personal contacts and other items of work are necessary to bring about this success. This brings me to the subject of the wheel horse of your organization, the executive secretary. It has been my privilege, as your president, to have worked closely with Mr. Lincke during these past months, and I would consider myself deficient in office if I failed to call your attention to the competent, enthusiastic and cooperative manner in which he is executing his duties."

"Outstanding among these, but by no means comprising his full duties, is his constant work with the two legislative bodies of our great state—lending support to the introduction and passage of bills favorable to the industry and ever-watchful to oppose any of a detrimental character."

"Nor is your secretary's legislative

vision limited to this state. Through him and the association's directors, and in conjunction with the American Association of Nurserymen, we are lending vigorous support to the plant quarantine measure now being considered by the Senate in Washington, D. C. This bill, as many of you know, would limit the importation of foreign plant material to amounts necessary for propagation and experimental purposes. At the same time, this would assist greatly in holding down the influx of foreign plant diseases with which the country is now being plagued."

"Also, your organization has constant representation before the state department of agriculture, state department of employment and many other city, county, state and federal agencies."

"We should not overlook the splendid publicity job that your secretary is doing. A glance through

the association's scrapbook is proof of the many news releases, publicizing the activities of your association, which appear at regular intervals in many local, state and national publications."

"One of the constantly growing activities of the secretary's office is the extremely large volume of correspondence with the members and the handling of the many problems with which they are confronted. This is proof that the organization is functioning effectively at the proper level and that level is the individual member. It is an old axiom that members of the California Association of Nurserymen receive benefits many, many times the amount of their dues."

### SAN FERNANDO VALLEY ASSOCIATION MEETS.

The San Fernando Valley Nurserymen's Association met May 20 at the Patio restaurant, Van Nuys, Cal., with Vice-president Ted Beach presiding.

The following visitors were introduced: Mr. and Mrs. Pete Mordigan, of the Mordigan Nursery, San Fernando; Mr. and Mrs. J. C. Craig, of Craig's Nursery, La Crescenta; repre-

## PANSY

**GARDEN STATE GIANTS.** The Deluxe Pansy. A superb mixture with immense heavy-textured flowers in a widerange of colors, rich in reds and velvety purples. Resistant to summer heat and truly a pansy "that will sell when others go begging."

Tr. Pkt., \$0.75; 1/4 oz., \$3.00; Oz., \$10.00; 1/4 lb., \$35.00.

**AMERICA.** A bright-colored, large-flowered strain of good habit.

Tr. Pkt., \$0.65; 1/4 oz., \$2.50; Oz., \$9.00.

**SUPER MAPLE LEAF GIANTS.** A large-flowered strain, almost as large as the Garden State Giants but lacking the petal substance.

Tr. Pkt., \$0.75; 1/4 oz., \$3.00; Oz., \$10.00.

**NEW EXTRA-DWARF SWISS GIANTS.** A special selection of extra-compact habit with bright colors and large blooms.

Tr. Pkt., \$0.75; 1/4 oz., \$3.00; Oz., \$10.00.

**SWISS GIANT.** Separate colors in Garnet-red, Dark Violet, Pure Yellow, Gentian-blue, White and Super Swiss Giant Mixture.

Tr. Pkt., \$0.75; 1/4 oz., \$3.00; Oz., \$10.00.

**Violas, Forget-me-nots, English Daisies, Sweet Williams** and all other seasonal flower seeds. Send for list.

## SOMERSET ROSE NURSERY, INC.

P. O. Box 608.

New Brunswick, N. J.

### GYPSOPHILA

#### Bristol Fairy

Send for trade list of perennials

STRATFORD GARDENS

Delaware, Ohio



### IRISES • DAY LILIES

### PEONIES • POPPIES

ALL YOUNG GROWN STOCK

Prompt Service

Send for Wholesale Prices

C. F. WASSENBERG  
Van Wert, O.

### WELLER'S PERENNIALS

With That Wonderful Root System  
Headquarters for

**HARDY MUMS AND PHLOX**

Ask for our Perennial Catalog.

WELLER NURSERIES CO., Inc.

Leading Perennial Growers  
Holland, Mich.

The **CHRYSANTHEMUM**  
CATALOG you cannot afford  
to be without.

WONDERLAND NURSERIES  
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 Hansen's BUSH CHERRY  
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**GRAPEVINES, CURRANTS,**  
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**BERRY PLANTS**

Can also supply Currant  
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Known to the Wholesale Trade  
 for Small Fruit Plants of Superior  
 Quality Since 1890.

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**CERTIFIED**  
**BLUEBERRY PLANTS**

1-year Rooted Cuttings, 2 and 3-year  
 Nursery Plants, all varieties; propagated  
 from stock taken from our own produc-  
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**SEND FOR RIGHT WHOLESALE PRICES.**

Large quantities to Nurserymen, Deal-  
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 Small quantities to Home Growers.

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**BLUEBERRY FARMS**  
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**Our General Line of**  
**SMALL FRUIT PLANTS**

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 Bridgman, Michigan

**SMALL FRUIT PLANTS**

We again offer our complete line of  
 Grapes, Currants and Berry Plants.

Now booking orders for 1947.

**FOSTER NURSERY CO., INC.**  
 69 Orchard St. Fredonia, N. Y.

**SNEED NURSERY COMPANY**

P. O. Box 798

Oklahoma City, Okla.

representatives of the Destruxol Corp.;  
 Mr. Myers, entomologist; Mr. Marsh,  
 director of nursery inspection; Mr.  
 Gorton, deputy in charge of plant  
 quarantine and nursery survey, and  
 Wray Hiltabrand, assistant super-  
 visor of the state nursery service.

Jack Lincke, executive secretary of  
 the California Association of Nurs-  
 erymen, introduced Charles Arm-  
 strong, president of the state asso-  
 ciation, who spoke on "One Family,  
 United We Stand." Mr. Lincke then  
 spoke on the membership of the state  
 association. He also gave a synopsis  
 of trends in the business. A discus-  
 sion on liability insurance was held.  
 Mr. Lincke asked that members give  
 him suggestions as to what the asso-  
 ciation should do regarding the  
 methods being employed by the  
 county to assess taxes upon nurseries.

At the directors' meeting it was de-  
 cided that the association will take  
 part in the state fair, to be held at  
 Sacramento August 28 to September  
 7.

Wray Hiltabrand spoke on the  
 work of the state nursery service, ex-  
 plaining what the service is doing and  
 attempting to do for the nurserymen.  
 He reported an increase in the num-  
 ber of issued licenses from 3,154 to  
 3,500 in a year. Members were asked  
 their ideas on an increase in license  
 fees in order to give support to the  
 state service.

The question of requiring examina-  
 tions or four years of previous experi-  
 ence in nursery work for those apply-  
 ing for nurserymen's licenses was dis-  
 cussed. A discussion was held on the  
 advantages of obtaining and using the  
 pinto tag.

Paul E. Lombard, Sec'y.

**TRI-COUNTY CHAPTER**  
**HOLDS MEETING.**

The May meeting of the Tri-  
 County chapter of the California  
 Association of Nurserymen was held  
 May 23 at the California Polytechnic  
 School at San Luis Obispo. Chapter  
 members were guests of the school  
 for the day and were given a com-  
 plete tour of the agricultural facilities  
 on the vast 6,000-acre campus.

Some forty members and guests  
 boarded one of the school's busses  
 and were taken first to the deciduous  
 fruit tree project. After inspecting  
 it, members visited the citrus and  
 avocado plots, the vineyard, berry  
 patches, race horse stables, dairy  
 barns, breeding pens, creamery and  
 the nursery and landscape depart-  
 ment. It was pointed out by W. B.  
 Howes, head of this department and  
 master of ceremonies for the occa-  
 sion, that the enrollment at the school

**300,000 HARDY**  
**CHRYSAANTHEMUMS**  
**Field-grown Divisions**

**ALGONQUIN**, fine, double, showy yel-  
 low.  
**APOLLO**, bronze and yellow, Korean,  
 tall, good.  
**ASTRID**, clear pink, Korean.  
**AUTUMN LIGHTS**, lovely semidouble  
 bronze.  
**CALIFE**, tall, double, deep red.  
**DEAN KAY**, large cushion type, rose-  
 pink.  
**EMBER**, double, showy orange-bronze.  
**GOBLIN**, warm bronze pompon, good  
 cutter.  
**JEAN TREADWAY**, double pink, tall,  
 good cutter.  
**KRISTINA**, beautiful cerise-red Korean.  
**MARJORIE MILLS**, cushion type, crim-  
 son and peach.  
**PIGMY GOLD**, cushion type, yellow  
 pompon.  
**SIEGFRIED**, large, yellow, Korean.  
**SONNY BOY**, bronze-yellow pompon,  
 good for pots.  
**VIRING**, large reddish-bronze, Korean.  
**WHITE GULL**, cushion type, white  
 pompon.

**CUSHION MUMS**

**BRONZE CUSHION**  
**NEW RED CUSHION**  
**PINK CUSHION**  
**WHITE CUSHION**

Above at \$4.00 per 100; \$35.00 per 1000.  
 25 at 100 rate. Minimum order \$4.00.

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**SMALL FRUIT PLANTS**  
**and**  
**VEGETABLE ROOTS**

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 BRIDGMAN, MICH.

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 hardy and most productive,  
 the Pixwell puts profit in  
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**Shrubs, etc.**

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 Taxus in variety, R.C., tr. and pots.  
 Weigela, Eve Rathke, 2-yr. frame tr.  
 Viburnum Rhytidophyllum, R.C. and pots.  
 Contracting now for future delivery.  
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AZALEAS  
CAMELLIAS CONIFERS  
BROAD-LEAVED  
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Asparagus — Rhubarb  
Send for Complete Trade List.

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NEW CARLISLE, O.

## RED RHUBARB

Chipman's Canada Red  
**KEELER'S GARDENS**  
Sioux Falls, So. Dak.

numbers 1,700 men, mostly married veterans. The average age of students has jumped to 29 years, as compared to 19 years prior to World War II.

Following the tour a business meeting was held in the auditorium. President C. Mavro Warren extended the chapter's thanks to Mr. Howes and his able assistants, Stanton Grey, Howard Brown and Mr. Voorhies, who are agricultural instructors, for their hospitality.

After all business was completed, President Warren introduced Wray Hiltabrand, of the state bureau of nursery service, who gave a short talk on the aims of the nursery service in California. He stated that the service has gone a long way in helping nurserymen and that it hopes to be able to provide further aid in solving some of the problems which confront nurserymen in various sections of the state. He further stated that the number of new licenses issued has increased twenty-two per cent over last year; 1,350 have been issued to date.

Dinner was served in the cafeteria. Except for a few minor items, all the foods were products of the school.

Schuyler Arnold, of the Waller-Franklin Seed Co., gave an interesting talk on plant breeding and explained the intricate task of originating new varieties.

Late to arrive were Jack Lincke and Charles Armstrong, executive secretary and president, respectively, of the state association. President Armstrong gave a brief talk on the aims of the association and the advantages of being a member.

L. T. Clearwater, Sec'y.

## CENTRAL CALIFORNIA ASSOCIATION MEETS.

The Central California Nurserymen's Association went back to San Jose for a second time in three months for its meeting of June 12. Dinner was served at Lou's Village. Herman Sandkuhle, Sunset Nursery Co., Oakland, presided.

The main speaker for the evening was introduced by Ray Hartman, of Leonard Coates Nurseries, Inc., San Jose. The speaker was L. C. Barnard, Santa Clara county farm adviser. His topic was "Grafting Deciduous Nursery Stock." He explained that he did not hope to teach the nurserymen how to do this job, but that his purpose was largely to give a farm meeting demonstration of grafting. He selected the walnut, which is frequently top-grafted in this area after the trees are many years old. Such grafting is done either to introduce newer and better varieties into an

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DOUGLAS FIR, 8 to 12 inches.....	Per 100
DOUGLAS FIR, 18 to 36 inches.....	\$10.00
WHITE FIR, 8 to 12 inches.....	25.00
GIANT ARBORVITAE, 6 to 16 inches.....	12.00
WESTERN HEMLOCK, 6 to 16 inches.....	12.00
SCOTCH BROOM, 8 to 16 inches.....	7.50
SPECIAL: 100 each, 6 above items.....	60.00

All material carefully gathered, extra-well packed and shipped this fall. 25 per cent deposit required on C.O.D. orders.

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Our 1947 Trade Price List of Lily and Miscellaneous Bulbs is now available and will be mailed upon request.

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Lake Grove, Oregon

orchard or to replace top wood of bearing age on older stocks in order to keep a grove in production after it normally has passed its prime. Mr. Barnard listed three steps that are needed for a successful graft of this kind. They are: Selection of dormant one-year-old wood for scions from healthy trees; use of stocks which are compatible, and the making of the graft during the seasons when the sap is flowing.

He told how to take the scion wood and how to keep it dormant until it is needed, to have dormant wood for scions when the sap is flowing in the stock. As to compatibility, he suggested one call at the county farm adviser's office for a chart which contains detailed information, not only regarding the walnut but also for other kinds of trees. He then listed some more points while he gave a demonstration using wood which he had brought to the meeting. The key points to remember are to keep the scion clean and dry, to make the graft at the time the sap is up in the stock, to use hot wax which will run into cracks that will not be reached if the wax is cold and hard and to rewax after a few days so that the graft will be kept watertight and airtight until a union is made. If raffia is used, remember to remove it after the union is completed to prevent constriction.

Mr. Barnard said that he no longer uses or recommends the cleft graft. He demonstrated the modified bark graft which he said was easier and quicker and which sticks about ninety-five per cent of the time, even when done by a beginner. He also demonstrated a side graft.

President Sandkuhle introduced Harry Marks, general manager of the Germain Seed & Plant Co., Los Angeles, who was visiting the area; Paul Doty, of Doty & Doerner, Inc., Portland, Ore., who had been calling on trade in this area for the past several weeks, and Harry Nelson, secretary of the California Horticultural Council and instructor in vocational floriculture and nursery practices at San Francisco Junior College. George Kelley, of the Leonard Coates Flower Shop, was asked to take a bow for his excellent table decorations.

Mr. Sandkuhle also gave a resume of the discussions that took place at the meeting of the board of directors which preceded the general meeting. Among these were a consideration of the tax problem, which is becoming a heavy burden to the nurserymen because of the assessment of a heavy personal property tax on growing plants and which he said would, in

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Hemet, California

one case, amount to around one per cent of the gross income of a nurseryman. Also considered were group exhibits at local flower shows and fairs, with the recommendation that the group use the aid of professional landscape architects in designing such exhibits. Announcement was made that through the executive office of the California Association of Nurserymen group liability insurance now may be had at a saving to all.

The next meeting will be held July 10 at San Francisco. The annual picnic will be held August 14, probably in the Niles canyon. W. B. B.

### CALIFORNIA NOTES.

Several nurserymen and flower growers of the San Francisco bay area met at Redwood City recently to discuss taxation. The tax assessors have sent bills to growers for personal property taxes on all growing plants. Hardest hit by this are the growers of such crops as asters and chrysanthemums.

Juel Christensen, of the Christensen Nursery Co., at Belmont and San Francisco, left early last month for a vacation in Canada. Louis D. Schenone, of the Belmont branch, will vacation in the mountains at Yosemite National Park.

R. M. Davidson has resigned his position with Lee Bros., wholesale florists, and has announced the formal opening of the R. M. Davidson Co., wholesale shippers, at Burlingame. Associated with him are George C. Matraia and Robert B. Schwerin, long in the wholesale flower business.

Agricultural commissioners report heavy infestations of red spiders and aphids among the asters and pears in the state because the DDT sprayings which have destroyed the enemies of these insects have not affected the insects themselves.

Ammonium sulphamate, used to fireproof black cloth, causes some injury to chrysanthemums grown under black cloth when rain washes some of the chemical through the cloth onto the plants, according to an announcement by Max Leonard, San Mateo agricultural commissioner. The detective work on the problem was done by Deputy Commissioner Ivan Campbell.

Max Leonard has returned from a short vacation in the southern California desert.

The twenty-first annual convention of the Pacific States Seedsmen's Association was held late in May at Yosemite Park. Louis B. Lagomarsino, of F. Lagomarsino & Sons,



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JULY 1, 1947

35

at Sacramento, presided at the meetings. Inability to house all who wanted to come reduced the attendance.

A tree-hopping helicopter which blew raindrops from ripened cherries was credited with saving a \$250,000 Santa Clara county crop. Had the rain not been removed before the sun came out, the cherries, which were about ready to be picked, would have burst, according to orchardists and agricultural advisers. The propeller of the helicopter whirled the drops off the fruit, and the increased air currents caused by the propeller's action carried the moisture away from the orchards. The helicopter was flown at an altitude of about 400 feet by Lieut. John R. Halpin, of the United States Army, from an army-navy air-sea rescue station near San Jose.

Jack Snyder and Stewart Wade now operate the Orchard Nursery & Supply, Tunnel road, Lafayette.

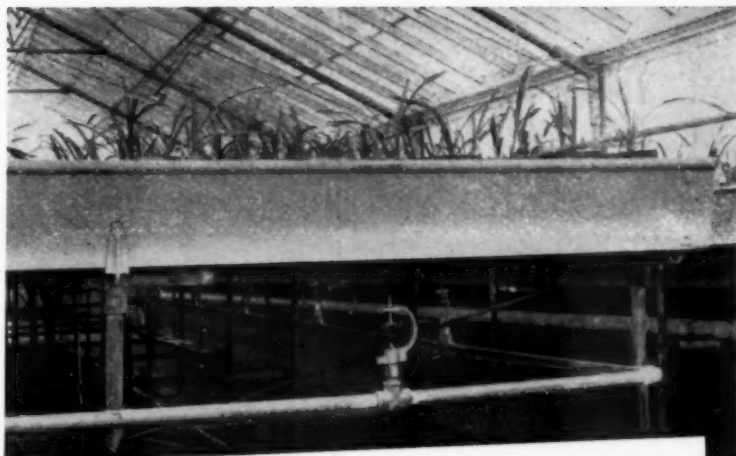
The United States Department of Agriculture has announced the development of a new fertilizer. It is a combination of urea and formaldehyde and is known as Uraform. It may be applied directly or mixed with other fertilizing materials. One of the features of this product is that it furnishes a slow-acting and long-lasting source of nitrogen. At present it is not available except in experimental quantities because of shortages of both ingredients.

The Hallawell Seed Co. will open at 519 Market street, San Francisco, as soon as the finishing touches are put into the streamlined store. The store will replace the one at another location which was destroyed by fire in January. The firm has been in business at San Francisco for over forty years and operates a modern nursery at the southwest end of the city.

Anticipating a series of dry years, several nurserymen and many ranchers over the state are drilling extra wells.

The Pacific Guano Co. has replaced the laboratory building destroyed by fire two or three years ago. The new laboratory will be used for analyzing fertilizer components, soils and other commercial work, such as developing new insecticides and other products. W. C. Leigh, head chemist for thirty-two years, will direct the work.

H. B. Griswold, president, of La Habra; C. S. Crawford, member of the variety committee, of Santa Ana; H. E. Wahberg, farm adviser, of Santa Ana, and Dr. C. A. Schroeder, botanist from the University of California at Los Angeles, were sent by



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- The fine mist produced by the Christensen Mist Spray gently irrigates and humidifies delicate plants and seedlings without washing away soil or destroying delicate foliage. Further, the finely divided moisture dissolves oxygen from the air and that oxygenated mist inhibits plant disease appreciably.
- The Christensen Mist Spray is without an equal in its ability to atomize water with the aid of water pressure alone.
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2-oz. can ..... 25¢—packed 36 to case—wt. 12 lbs.  
7-oz. can ..... 50¢—packed 21 to case—wt. 14 lbs.  
1-lb. can ..... \$1.00—packed 12 to case—wt. 16 lbs.  
10-lb. drum \$8—25 lbs. \$15—50 lbs. \$25—100 lbs. \$40  
Commercial growers and dealers receive 33-1/3% discount from the above retail prices.

BUY HYPONEX from your jobber or send \$1 for 1 lb. (makes 100 gallons). \$1 credited on first order for 1 drum or case.

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the Avocado Society to Mexico to secure rootstocks of the avocado resistant to the avocado decline. It will be ten or more years before the complete value of the material with which they returned will be fully known, but they report that they made considerable progress in securing the kind of stocks that they wanted.

The California Horticultural Council met June 4 at the San Francisco Junior College. Subjects discussed were "An Arboretum for Northern California" and "Training Horticultural Workers."

H. B. Weir, of the Perennial Gardens, San Carlos, is attending the nursery training school at San Mateo Junior College. This course is designed primarily for ex-GI's who want or need further training in their vocations. Mr. Weir was in the navy and only recently has taken over the nursery, with which he operates a flower shop.

James Wilson, of Peters & Wilson Nursery, Millbrae, went to Sonora to be present at the graduation of his daughter from a private girls' school. F. O. Peters, also of this firm, has been vacationing in northern California with his brother, who is visiting this country from Holland.

W. B. Clarke & Co., San Jose, recently held the best attended lilac show the concern ever has staged. Amateurs and nurserymen from the entire bay area plan each year to see this show to learn what W. B. Clarke, Sr., has developed, not only in lilacs but in other kinds of flowering shrubs as well.

W. B. B.

### OREGON HOLLY GROWERS ELECT.

Members of the Oregon Holly Growers' Association elected new officers at a recent meeting. V. R. Casebeer, Lake Grove, was elected president; Jack Strong, Gresham, vice-president, and Irma Thomas, Carver, was reelected secretary-treasurer. Fifty-two growers of a total of 160 in the state now belong to the association, which has set as its goal tripling of the present \$500,000 business now done by Oregon holly growers.

### JOHNNY APPLESEED AWARD.

Lester Norris, St. Charles, Ill., and Fred Edmunds, Portland, Ore., were honored by the Men's Garden Clubs of America this year, with presentation of the Johnny Appleseed memorial certificate. Each year the organization gives the award to someone the members decide has made the most

outstanding contribution in horticultural achievement for the year. Mr. Norris is active in garden club activities, and Mr. Edmunds is curator of the international rose gardens at Washington park, Portland.

### F. L. SKINNER HONORED.

At the annual convention of the University of Manitoba, Canada, Frank L. Skinner, Dropmore Nursery, Dropmore, Man., was given an honorary degree of doctor of laws, May 16. Dr. Skinner is well known for his work in breeding superior plants.

Dr. Skinner went to Canada from Scotland when he was 12 years old. When he was 28 he toured the United States and Canada, studying plant-breeding methods, and took back to Dropmore many native American plants.

After the depression of 1922 he found he would have to turn his hobby into a paying business or forget plant study, and he was persuaded by M. B. Davis, Dominion horticulturist, and Prof. W. H. Alderman, head of the department of horticulture at the University of Minnesota, to start a nursery. The Dropmore Nursery was started by Dr. Skinner in 1922.

Dr. Skinner has traveled extensively through North America and this summer will visit Sweden and France.

### "CANNED" PLANTS.

"Canned" plants have carried us into the summer month of June at a rate which leaves us wondering if there is a slack season for selling evergreen nursery stock. Sales, particularly at our Dallas warehouse, have maintained an extraordinary high level compared to our average "in season" selling.

Some flowering shrubs, especially roses, moved particularly well, our supply of good roses having been exhausted at approximately the middle of May. The demand for roses in bloom in containers continued into June, and orders were turned down almost daily.

On evergreens the demand has been constant and surprisingly good. The main mover has been gardenias, which fortunately we were able to carry through the winter with little damage because of cold weather. The loss of this item in the Dallas and Fort Worth area contributed somewhat to the good sales of this plant. The "canned" gardenias were well branched, and many of them carried quite a few buds. Early but careful

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Nursery Stock at  
Wholesale Only.



**ARTHUR DUMMETT**

Bernardville, N. J.

fertilizing produced a desirable color in the foliage, putting such an attractive appeal on the plant that buyers were not particular whether or not the plant had buds.

Another item that went through the cold with no apparent harm at Scottsville was the nandina. Controlled growth in cans is producing uniform plants, so that there are practically no throwbacks.

If late May and early June were any indication of what summer planting can be, it is apparent the average landscape man and dealer are aware of the "hot season" selling. Even such common items as Amur River South privet is finding its way to market in full leaf in containers. This generally is an inexpensive seller as a bare-root plant. On the novelty side we have grapes growing in cans, and some of the vines have fruit on them.

As time passes and experiences are accumulated there should be no off season in the nursery business. I doubt if watermelons on the vine, with the plant growing in a can, would ever be practical, but after our brief experience in this line of work I should certainly feel that it was entirely possible. Steve Verhalen.

O. S. JOHNSON has purchased Gordon & Evelyn's Nursery and the Better Flower Gardens Store, Bellflower, Cal., and plans to add new buildings.

THE nursery department of Roy F. Wilcox & Co., Montebello, Cal., has been transferred to Franklin K. and Richard K. Wilcox, sons of Roy F. Wilcox, and will be operated under the name of Keeline-Wilcox Nurseries.

ARMSTRONG NURSERIES, INC., Ontario, Cal., has purchased 160 acres of land along the Santa Ana river near West Riverside to be used for the propagation of plants. The purchase price was approximately \$70,000.

WIVES of members of the San Fernando Valley Nurserymen's Association were guests at a bridal shower, May 24, in honor of Miss Rose Giannulli, former treasurer of the association, which was given at the Ross Majestic home, Van Nuys, Cal. Mrs. W. J. Powell was the hostess, and her guests included Mesdames Ted Beach, Pete Carter, William Clark, Verne McIntyre, Cecil McIntyre, Kenneth Davis, Stanley Rey, Eric Regan, Sandy Young, Gene Giannulli, Art Frishman, Edward Snyder and Miss Mary Giannulli.



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- Specially designed curved nose.
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- Over-all width, 45½ inches.
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Per 100  
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## NEW YORK ROSE EVENTS.

John A. Armstrong, vice-president of the American Association of Nurserymen and first president of All-America Rose Selections, Inc., flew from Ontario, Cal., to participate in several programs about roses at New York city June 10 and 11.

After addressing the first press breakfast of the All-America Rose Selections, Inc., Mr. Armstrong answered questions of the press on new roses, as did other A. A. R. S. committeemen, Charles H. Perkins, president of Jackson & Perkins Co., Newark, N. Y., and Charles S. Burr, president of C. R. Burr & Co., Manchester, Conn. The press breakfast was arranged by the Verne Burnette organization, which is retained by both the A. A. R. S. and the A. A. N. for publicity work. Mrs. Althea Rickert Wheeler, account executive, opened the informal discussion.

As guest speaker at the rose forum presented June 10 and 11 in New York Times Hall, by the New York Times, Mr. Armstrong spoke on "The Story Behind New Garden Roses," on the evening of June 10. The forum program was devoted to demonstrations on rose arrangements in the home and basic points of flower arrangements and to talks on success with roses. Trade exhibits were made by Jackson & Perkins Co., Newark, N. Y.; Bobbink & Atkins, Rutherford, N. J.; Conard-Pyle Co., West Grove, Pa.; Peter Henderson & Co., New York, N. Y.; Henry A. Dreer, Philadelphia, Pa., and Totty's, Madison, N. J. A display was made by the A. A. R. S. of the nineteen All-America rose selections, winners since the inception of the award in 1941.

The American Rose Society, in co-operation with the New York Botanical Garden, presented rose growers' day, June 11, at the garden. An inspection of the rose garden, led by L. C. Bobbink and his associates, opened the morning program. Marian Cruger Coffin, landscape architect, spoke on "Roses in Landscaping," and Robert Pyle made a report on his European travels.

In the afternoon, following a picnic lunch, Mrs. Richardson Wright gave a talk on "Roses for the Collector," and Dr. P. P. Pirone spoke on "New Pest Controls for the Rose Garden." R. C. Allen, executive secretary of the society, and Paul F. Frese, editor of Flower Grower, presided at the morning and afternoon sessions, respectively.

Mr. Armstrong also attended the rose day at the New York Botanical Garden.



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Extra handles for above  
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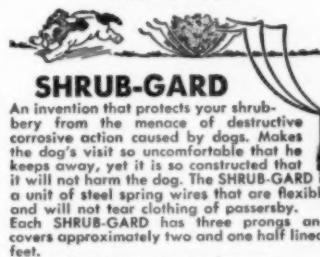
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LEATHER SAFETY SADDLES.

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### SHRUB-GARD

An invention that protects your shrubbery from the menace of destructive corrosive action caused by dogs. Makes the dog's visit so uncomfortable that he keeps away, yet it is so constructed that it will not harm the dog. The SHRUB-GARD is a unit of steel spring wires that are flexible and will not tear clothing of passersby. Each SHRUB-GARD has three prongs and covers approximately two and one half lined feet.

Harmless to dogs or humans.  
Packed one dozen to a carton, weight 2 lbs.  
Price \$2.50 per dozen.

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# Peach Variety Survey

A national appraisal of peach varieties, similar to the apple variety survey reported in the April 1 issue of the American Nurseryman, is presented by John T. Bregger, of the variety appraisal committee of the American Pomological Society, in the spring edition of Fruit Varieties and Horticultural Digest, published by the society. Although peaches are not grown in as many states as are apples, their distribution in the south is much greater, and in an east-to-west coverage the distribution of peaches is almost equal to that of apples.

The country was divided into five general areas—New England, north Atlantic, north central and southern states and the Pacific northwest—and peach varieties within each area were summarized. Following a slightly different system than that used with apples, the varieties were listed within each district according to their present and contemplated plantings by the growers contacted. While the listing did not take into consideration the per cent of new total acreage to be devoted to each variety, it did indicate which varieties are gaining and which ones are losing ground. The emphasis growers have placed on the discard of certain varieties, indicated on the listing by one or two asterisks, also shows the present trend in variety preference.

The Elberta variety stands at the top of the list in grower favor in all sections but the Pacific northwest, and there it is second. In the east and south, Golden Jubilee rates second choice, though not necessarily on a purely acreage basis. Halehaven ranks second in the north central states, and Hiley holds that position in the south. In the Pacific northwest, J. H. Hale is in first favor both as to present and future ratings.

Halehaven is in third place in the New England states, and other varieties, in descending order of present rating, are: J. H. Hale, Belle of Georgia, Southhaven, Cumberland, Carman, Early Elberta (Gleason), Lizzie, Mikado (June Elberta), Summercrest, Valiant, Eclipse, Golden-east, Champion, Redhaven, Oriole, Late Elberta, Afterglow, Rio Oso Gem and Triagem. Varieties heavily checked for discard in New England, without planting intentions, are: Early Crawford, Greensboro, Hiley, Late Crawford, Marigold, Mayflower and Rochester. Redhaven, in seventeenth place in present ratings, is

sixth in order of varieties intended for future plantings.

In the north Atlantic states Halehaven is also in third place, with other varieties, in descending order, including: J. H. Hale, Belle of Georgia, Golden-east, Summercrest, Triagem, Sunhigh, Raritan Rose, White Hale, Southhaven, Golden-globe, Afterglow, Early Elberta, Early Red Fire, Cumberland, Eclipse, Vedette, Newday, Rio Oso Gem and Redhaven. Varieties heavily checked for discard are: Carman, Colara, Hiley, Mayflower, Mikado and Slappey. Rio Oso Gem is a rising favorite, ranking twenty-first in present ratings and fourteenth in future ratings.

J. H. Hale, Golden Jubilee, Southhaven and Rochester hold third, fourth, fifth and sixth place, respectively, in growers' preference in north central states. Those receiving the present ratings of seventh to twentieth, inclusive, are: Champion, Redhaven, Belle of Georgia, Early Elberta (Gleason), Fertile Hale, Gage Elberta, Early Wheeler (Red Bird Cling), Early Halehaven, Oriole, Shippers Late Red, Kalhaven, Cumberland, Vedette and July Elberta (Burbank Elberta). Varieties

to be discarded in the north central area are: Admiral Dewey, Alton, Arp, Carman, Mayflower, Salberta, Salwey and Wilma. Redhaven and Early Halehaven received higher ratings for future than for present plantings.

In the south, Belle of Georgia is third, and Golden Jubilee is fourth. Other varieties, listed according to present rating, are: J. H. Hale, Early Rose, Mayflower, Halehaven, Early Wheeler (Red Bird Cling), Early Elberta (Gleason), Carman, Early Hiley, Fair Beauty, July Elberta (Burbank Elberta), Uneeda, Frank, Augbert, Late Elberta, Greensboro and Sullivan Early Elberta. No varieties were heavily checked for discard which did not receive ratings on future planting intentions.

Grower evaluation of peach varieties in the Pacific northwest indicated that, in addition to J. H. Hale and Elberta, which rank first and second, the following varieties are favored: Rochester, Golden Jubilee, Early Elberta (Gleason), Slappey, Early Crawford, Halehaven, Late Elberta, Late Crawford, July Elberta (Burbank Elberta), Rio Oso Gem and Redelberta. Varieties heavily checked for discard, without planting intentions, are: Candoka, Krummel October and Early and Late Crawford.

Older varieties are going out much

## WANT ADS

Help and Situation Wanted and For Sale advertisements.

Display: \$3.00 per inch, each insertion.

Lines: 25¢ line; minimum order \$2.00

### FOR SALE

Nursery located in north-central Ohio. 10 acres of excellent stock, mostly evergreens, in good location. Well equipped. Will sell stock alone or nursery complete. Address Box 500, care of American Nurseryman.

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Nursery and Greenhouses for lease with purchase option. Ideal location for garden department store.

W. B. HERRYMAN  
3600 West Elm St. Lima, Ohio  
Phone: 64581.

### HELP WANTED

Wanted, a capable landscape superintendent, well experienced in field work. Write letter giving your references, qualifications and education. Do not answer unless you have the above qualifications. Address Box 501, care of American Nurseryman.

HELP WANTED—Wanted experienced nurseryman desiring permanent employment with Pacific Northwest's leading nursery. Ability to do general nursery work and serve retail trade. Excellent opportunity for right man to become assistant superintendent. Top wages. Address RICHMOND NURSERIES, Richmond Beach, Wash.

### FOR SALE

Ed Sapp Nursery & Camellia Farm, 50 acres, several thousand Azaleas and Camellias, 10,000 feet under glass, also lattice shade. Two residences, barn, shed rooms; electricity, own water system. Tractor, truck, mule and tools. ½ mile from city limits. Only nursery in county. Too large for me to operate.

MRS. ED SAPP  
SAPP'S NURSERY &  
CAMELLIA FARM  
P.O. Box 6 Waycross, Ga.

FOR SALE—Texas widow offers 100-acre Nursery, vicinity Tyler. 12-room modern home; 2 tenant houses; 2 barns; 100,000 roses; other nursery stock in field. Property near proven oil wells. \$22,000 cash. Address Box 499, care of American Nurseryman.

FOR SALE—Nursery; 35 miles south of Chicago Loop, on highway 54; approximately 29 acres; variety of trees and shrubs. Address Box 497, care of American Nurseryman.

FOR SALE—Nursery, \$55,000. 5 acres evergreens; 7 acres trees; 29 other acres; heavy soil; orchard; 11-room house; 3-car garage; shop; near Twin Cities, on busy U. S. highway 212. HUDSON NURSERY, R. 1, Hopkins, Minn.

faster in states where new varieties are being bred to take their places than where the latter must be brought in from outside the state. This is especially evident on the Pacific coast, where strict quarantine laws have kept many new varieties from being planted. In New Jersey and surrounding states, several New Jersey experiment station introductions are assuming commercial proportions. The same is true with the Michigan introductions in the north central states. In the southeast, where Hiley and early white varieties are declining rapidly, local United States Department of Agriculture introductions, such as Southland, Dixiegem and Dixiered, are beginning to appear in new plantings. It is becoming increasingly evident that variety change is a slow process among the rank and file of fruit growers. In other words, even the best new varieties do not assume leading positions in a few years' time.

As is the case with apples, a comparatively few varieties make up a large per cent of the total peach tree acreage in each state and region. This is largely because a significant amount of the total freestone peach production is still shipped commercially and must fit into the market between the peak shipments of competing regions to the north and south. With the continued growth of the canning and freezing industry, however, a greater number of new and especially qualified varieties will find its way into the peach plantings of all areas. Concluding his reports, Mr. Bregger said, "The most constant thing in the world is change, and this applies to peach varieties as much as to anything else."

#### MAPLE TREE PATENTED.

The following plant patent was issued on May 6, 1947, according to Rummler, Rummler & Snow, Chicago patent lawyers:

No. 735. Maple tree, Pierre Barbier, Orleans, France, assignor to Gulf Stream Nurseries, Inc., Wachapreague, Va. A new and distinct variety of Norway maple tree, characterized particularly by its upright growth and the continuity of the very dark reddish-purple color of its foliage throughout the growing season.

EIDSON LANDSCAPING CO., Bala-Cynwyd, Pa., has been purchased and completely modernized by Domenick Bioudi, of the Bioudi Greenhouse, Bound Brook, N. J.

SUTHERS MOUNDVIEW NURSERY, a retail nursery and landscape service, has been opened at Platteville, Wis. Gordon F. Suthers is president and A. F. Suthers is secretary-treasurer of the new enterprise.

## PORTABLE, ALL-BRASS CHAMPION GIVES YOU ALL-PURPOSE SPRAYING AT LOW COST

Here's ONE portable sprayer that does the work of several. Nozzle quickly adjusted to spray anything... up, down or sidewise... as fine mist or 30-foot stream:

**INSECTICIDES • FUNGICIDES • OILS  
DDT • WEED KILLER • WATER PAINT**

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**CHAMPION SPRAYER CO.**

Mfrs. of Portable Sprayers and Dusters  
6509 HEINTZ AVENUE  
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## BUDDING STRIPS

### NURSERYMEN IMPORTANT

The factory has just advised us that it has discontinued making Budding Strips for the balance of 1947.

We have a fair stock on hand now, but if you wait to order your strips until late July or August you may not be able to obtain 100% Natural Rubber Strips.

If you have not received our 1947 price list, send for same.

**THOMAS B. MEEHAN CO.**

Dresher, Pa.

## NOW! PEAT MOSS direct from mine to dealer.

Canadian Sphagnum Peat Moss packed in large wood veneer bales. Horticultural or Litter Grades.

Prompt shipment on all orders.

For prices and further details on this excellent opportunity

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## Big "RAINBOW" Sprinkler



Sprinkles areas up to 60 ft. square without having to be moved. Has 17 nozzles. Oscillates. Waters evenly. Adjustable for different size areas. Does the work of three or four ordinary sprinklers. Only \$45.00. F. O. B. Detroit. Also complete irrigation equipment.

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**YOU CAN'T DO --  
YOUR WORK THIS FAST**  
but you can do it better with less effort if you use **ANDERSON** Open Hoes, Scudde Hoes, Wheel Hoes, Flexible Steel Scrapers and Berry Hooks.  
Ask Your DEALER or Write  
Anderson Open Hoe Mfg. Co.  
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Ask to see them at your Hardware, Implement, Feed, Seed or Dept. Store. If your favorite dealer does not stock them, write for a catalog, enclosing dealer's name and address.

**STILL AT MARCH 1942 PRICES**

# Chemical Weed Killers

By C. J. Gilgut

For killing poison ivy, Ammate has proved the best in comparative tests with other weed killers. Sometimes, but not often, it is necessary to apply it again during the following season. It worked equally well at the rate of three-quarters of a pound and one pound per gallon. Objections to Ammate are that it is expensive and is corrosive to spray equipment. The corrosive action can be reduced by thorough washing with chemically hydrated lime dissolved in water.

The 2,4-D weed killers are excellent selective weed killers for lawns if used with care and according to manufacturers' directions. 2,4-D kills broad-leaved weeds, but does not injure grasses, except bent grass, on which it should be used with care. The objections to it are that drifting spray will injure ornamental plants and that it cannot be washed out of spray equipment easily. If possible, spray equipment used for 2,4-D should not be used to spray fungicides or insecticides on valuable plants. If spray equipment used for 2,4-D must be used to spray valuable plants, it should be washed and rinsed with hot water and then filled with a mixture of one part household ammonia to 100 parts of water. This solution should be circulated through the system and allowed to stay in the sprayer thirty-six to forty-eight hours. The sprayer should then be washed and rinsed at least two times. This treatment will remove enough 2,4-D from the sprayer so that, at most, injury will be negligible.

But the selective property of 2,4-D which makes it of such value for weed control on lawns makes it of little value in the nursery, where it is important to kill all weeds and at the same time not harm the nursery stock. The weed killer Sovasol No. 5, extensively used by vegetable growers to control weeds in carrots, shows considerable promise for nursery use. It kills most weeds quickly, including grasses, and leaves no harmful residue in the soil. A number of nursery plants are not injured by it. *Juniperus virginiana glauca* plants are not injured even when the entire plant is wet with the Sovasol. Likewise, spruce, hemlock and arborvitae

are highly resistant. Nevertheless, it is advisable when spraying the weeds to allow as little of the spray as possible to come in contact with the plants. So far, the most effective way to use it is in a 3 or 4-gallon hand sprayer equipped with a nozzle which delivers a flat spray. The flat spray makes it possible to spray close enough to the base of the plant to wet the weeds and yet not allow much spray to fall on the plant itself.

## BLACK CHERRY APHIS.

Sprays applied before the buds break have generally proved more consistent in controlling the black cherry aphis by destroying the eggs than sprays made after the buds are open, says Prof. F. Z. Hartzell, entomologist at the New York state experiment station at Geneva.

In experiments carried on by the station workers and later confirmed by the experience of growers, dormant sprays containing two gallons of tar oil, properly emulsified, in 100 gallons of spray mixture gave satisfactory results.

Dinitro compounds have been tested, and present recommendations call for one gallon of oil and six and two-fifths ounces of DN compound to 100 gallons of spray mixture to be applied before the buds have begun to burst.

The black cherry aphis emerges

from the overwintering eggs about the time the first cherry leaves unfold. These first individuals are all females and are known as "stem-mothers." They attach themselves to the young leaves and soon begin producing living young. Weather conditions determine largely the number of individuals that survive and the number of generations of aphids during the season. It has been estimated that under favorable conditions as many as eleven generations may develop on cherry foliage by the end of July.

Feeding of these insects if present in large numbers affects the size and flavor of the fruit. Also, a secretion known as honeydew produces a sticky and unattractive appearance of the fruit. The development of a sooty fungus in the honeydew may contribute further to the unsightly appearance of the cherries. Sweet cherries are more commonly infested than sour cherries, and young sweet cherry stock may be seriously stunted in the nursery.

## JAP BEETLE QUARANTINE SEASONAL RESTRICTIONS.

Seasonal regulation of the movement of fruits, vegetables and cut flowers from areas heavily infested with Japanese beetles began June 17 in the southern section and June 24 in the northern section of the affected areas, according to an announcement by Dr. P. N. Annand, chief of the bureau of entomology and plant quarantine.

Regulations began June 17 on commodities being shipped from Sussex

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Better equipped than ever to serve you. Fine dry or medium wet grades, packed in 100-pound bags or bulk cars. Samples, analysis, and rates furnished on request.

GET OUR PRICES BEFORE YOU BUY

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Lake Park, Ga.

Report of an address by Dr. C. J. Gilgut, assistant research professor of nursery culture at the Waltham field station of Massachusetts State College, at the annual meeting of the Massachusetts Nurserymen's Association at the Hotel Kenmore, Boston, Mass.

## RUBBER-TIRED WHEELBARROWS

Steel tray. Built for heavy work and constant use. Capacity, 4 cubic feet. Tray size, 35 x 30 inches. Ball-bearing wheel with rubber tire. Hardwood handles.

IMMEDIATE SHIPMENT.

Each, \$27.50.

## RUBBER-TIRED WHEEL

Equip your present wheelbarrows with these timesaving ball-bearing wheels with rubber tires. Sturdy cast metal wheels and low-pressure rubber tires, 16 x 4 inches. Maximum load, 450 lbs. Hub length, 6 ins. Axle diameter, 5/8 in.

Each, \$11.95.

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Mention The American Nurseryman

### NURSERY SPADES

Heavy-duty, alloy steel. 2/3-length (15-in.) steel straps.

Steel D-handle. Weight, 5 1/2 lbs.

Square point. Each, \$4.25

Diamond point. Each, \$4.40

### TREE-DIGGER SPADE

Heavy-duty, special alloy steel blade with flat cutting edge and turned steps. Full-length steel straps.

Tapered blade, 13 ins. long.

Each, \$5.50

### GARDEN SPADE

Fine-quality. Square point, hardwood D-handle.

Each, \$2.00; 6 for \$9.00.

### SPADING FORK

Heavy-duty. D-handle, 4-tine.

Each, \$1.85; 6 for \$8.10.

### NURSERY PRUNING KNIFE

Heavy, curved hook blade, 3 1/4 ins. long. Hardwood handle. Over-all length, 7 1/4 ins.

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## WRITE for CATALOG

Our 1947 Bluebook of Florists', Landscape and Nursery Supplies has been incorporated with the Summer Wholesale Seed List of our affiliate, The American Bulb Co. It is just off the press and available to any legitimate member of the trade.

### GREENHOUSE HOSE Rubber

Tough, heavy, yet pliable.

"Lion" 3-ply. Heavy duty. 3/4-inch. Uncoupled. Per ft. \$ 0.35

50-ft. length. Coupled. \$17.90

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All Brass—Clincher Type

	Each	Dozen
Couplings, 3/8" or 1/2"	\$0.45	\$3.60
Couplings, 1"	.95	7.40
Menders, 3/8" or 1/2"	.14	1.40
Menders, 1"	.40	4.00

### ALUMINUM TROWEL

All one piece. Will not bend or rust. Full deep blade. Will last a lifetime.

Each \$0.75 Dozen \$7.50

county, Delaware; Dorchester, Somerset, Wicomico and Worcester counties, Maryland; Accomac and Northampton counties, Tanners Creek district, Norfolk county and Kempsville district, Princess Anne county, Virginia.

Sections affected by quarantine regulations starting June 24 were Kent and New Castle counties, Delaware; the District of Columbia; Arlington county and Alexandria, Virginia, and parts of Maryland, New Jersey, New York and Pennsylvania.

THE former West Hampton Nursery, Elloree, S. C., owned by M. C. Zeigler, Jr., is now known as Zeig's Plant & Flower Shop.

LAST year a partner in Franklin Farms Nursery, Toledo, O., Royal C. Marsh, Godfrey, Ill., is starting in business for himself as a perennial grower.

LEONARD RIGGS, R. Lacy Nursery, Longview, Tex., was recently awarded a plaque for outstanding and distinguished service by the Civitan International at the convention at Miami, Fla. Mr. Riggs has been governor of the organization for Texas and Louisiana for the past year.



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### THE ALL-YEAR MACHINE!

Rototiller's\* high-speed rotary action breaks up weeds and fall cover crops, and distributes them uniformly throughout the soil to a full nine inches. This complete shredding and mixing of the humus increases the tilth of your soil and gives it greater moisture-retaining capacity. This is the time of the year to build rich seed beds that will produce bigger, more profitable yields next year.

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POWER TILLER OF A HUNDRED USES

FRAZER FARM EQUIPMENT

Graham-Paige Motors Corp., Willow Run, Mich.

## MORE SPRING REPORTS.

[Continued from page 17.]

are still short of demand; so we can hardly see how they could drop in price. Neither can we see how the trade can stand for higher prices, as they are now high enough to meet plenty of resistance from the retail trade.

"As an out-of-the-ordinary venture, we imported 17,000 hybrid rhododendrons and azaleas, and results have been excellent."

### More Customer Resistance.

The end-of-the-season lag and customer resistance were more noticeable this spring than in previous years, according to A. F. Meehan, of Thomas B. Meehan Co., Dresher, Pa., but nevertheless the volume of business was good. Mr. Meehan writes:

"Business in the Philadelphia district was good the past spring, although we noticed a falling off toward the end of the season, with more customer resistance than in previous years.

"The lining-out stock business was good last fall and during the early spring, but again, that type of business fell off toward the end of the season. We noticed that, during the entire year, the orders were more selective than in the past, and there was always more demand for the better varieties of stock.

"The labor situation is still bad. It is almost impossible to secure sufficient labor to take care of orders, and the quality of labor is not up to standard. Most nurseries located in the suburbs find that the better class of laborers goes to the cities, as there they can earn more money for less work.

"Freight shipments have been so slow that almost all of our shipments have been made by express, and even these have suffered from careless handling.

"Better varieties of stock are still scarce, but in my opinion, prices have about reached their top limit. In some cases, I feel they are too high, but with the government encouraging still higher prices for some commodities, it is pretty hard to reduce them."

### Weather Slows Operations.

Sales, shipping and planting were all slowed down by the continuous cold and wet weather in the east, according to T. S. Smith, president of W. T. Smith Corp., Geneva, N. Y., who writes:

"We believe our situation has been the same as everyone else's in the

# DEVELOPING NURSERY SALES AND DISPLAY GROUNDS

By Harold E. Hunziker

Ideas for displaying and selling nursery products from prize-winning designs for nursery sales and display grounds.

Illustrated with large-size reproductions of twenty-eight plans and their outstanding features.

Discusses sales building and other buildings on the nursery, circulation on the grounds; gives ideas for display arrangements and merchandising; shows how plans may be adapted to one's own nursery.

Complete series of articles reprinted from the American Nurseryman from June 1, 1946, through October 15, 1946, reviewing outstanding ideas from plans entered in prize competition sponsored by National Landscape Nurserymen's Association.

32 pages and stiff cover, 8 1/2 x 11 1/4 inches—\$1.00 per copy

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### FOR BETTER CONTROL OF

Lace Bug	Pine Leaf Scale
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Inspection Tags, Letterheads  
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Fine Color Lithograph Plate Books

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A guiding tool for shaping Evergreen Trees. Adjustable any size any shape. You can shape Evergreens in 8 to 12 minutes.



### TWO MODELS

**PERFECTRIM Sr.** for trees up to 12 feet tall. Can also be used for Hedges.

List Price \$15.00

**PERFECTRIM Jr.** for trees only up to 6 feet tall.

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All steel, chrome plated. Lifetime guarantee. Individually boxed.

ATTRACTIVE DEALER SET-UP

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## BEGINNING IN THE NURSERY BUSINESS

By John J. Pinney

Valuable suggestions and counsel for nurserymen of limited experience. Complete series of articles reprinted from issues of American Nurseryman.

50 cents per copy.

Special rates on quantity lots.

**AMERICAN NURSERYMAN**

343 S. Dearborn St., Chicago 4, Ill.

east. The continuous rain and cold weather interrupted not only our shipping, but also our planting. This condition also affected our sales, both of fruits and ornamentals, as the orchardists were unable to get on their land to set out any orchards, and the weather was so miserable that homeowners did not feel enthusiastic about doing any planting around their homes.

"The labor situation is approximately the same as it has been for some time, and unless we can compete with factory wages, we cannot expect to secure much help.

"We consigned most of our shipments by express as far as possible, as there was such a congestion of freight it was almost impossible to say how long it would take for a shipment to get through.

"We expect to have approximately the same amount of stock to offer this coming season and have not tried to increase any of our plantings.

"We cannot see how prices can be reduced to any appreciable extent, as all our costs are going up rather than being reduced."

#### Sales Up in New York.

Despite the bad weather, the volume of sales for Jackson & Perkins Co., Newark, N. Y., was even above that of last year, according to Charles H. Perkins, president. While Mr. Perkins foresees a shortage of stock, he cautions nurserymen not to overplant just because prices are high. His comments follow:

"The season just closed has been a hectic one because of the inclement weather which we had during the whole spring. On the whole, however, sales have been good, considerably better than last year. The demand was quite general, the one exception being that shade trees did not sell. We presume this was largely because of labor conditions in towns and in state and government operations.

"We think the future has a bright outlook, providing nurserymen will take cognizance of their costs and will hold their prices up to where a good living profit can be maintained. There is no doubt about the supply of stock in general being very short, especially on materials which it takes years to produce, such as evergreens, shade trees, etc. With the building program that is in prospect, both residential and industrial, plus street and park developments that are being planned by the municipal, state and federal governments, there will not be enough stock to go around.

"Regarding plantings, we would admonish nurserymen to keep their

## WHY THERE ARE 3 HORMODIN POWDERS

Experienced florists who propagate everything from chrysanthemums to evergreens, realize that *no single-strength root-inducing powder can propagate efficiently over so broad a range.* That is why Hormodin Powder has been developed in *three* strengths to parallel the range of hormones in nature:

### HORMODIN POWDER No. 1

The general-purpose powder—designed to root carnations, roses, and many other house, garden, and greenhouse plants.

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For propagating many woody and semi-woody types.

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For propagating many evergreens and dormant leafless cuttings.

#### THE TREATMENT

The treatment is simple. Moistened stems are dipped into Hormodin Powder, then placed in the usual propagating medium.

#### THE COST

The cost is small. For example: the one-pound tin of Hormodin Powder No. 1 (the general-purpose powder) costs only \$3.00. It is estimated that each ounce will treat about 2,500 cuttings of average size.

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Be sure to ask your dealer for the

## HORMODIN POWDERS

Best suited for your purpose

MERCK & CO., Inc. *Manufacturing Chemists* RAHWAY, N. J.

### TIMELY NECESSITIES for Prompt Shipment

- "HOLLANDIA" BURLAP SQUARES  
New Material, Soft, Easy to Tie; Saves Time, Labor and Twine.
- REED MATS for coldframes
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Write for prices; state requirements

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### Horticultural PEAT MOSS Finely Granulated High Absorbency



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## IMP. SOAP SPRAY

Use 1 part with 25 to 40 parts of water

Ask your nearest seedsman, or  
write for literature.

THE AMERICAN COLOR AND CHEMICAL CO.  
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#### ALLEN'S "FERTO-POTS"

Grow better vegetables, flowers, corns. Start in flats, then plant pot and all. **PLANT EATS POT.**

Box of 100 Box of 250  
2½-inch pots .....\$2.75 \$5.00  
3-inch pots ..... 3.00 5.50

Write for literature and prices on our full line of Agricultural Chemicals. Dealers wanted.

ALLEN CO., Pittsboro, N. J.

### FULLER WHEEL HOE MULCHES, WEEDS, CULTIVATES

Light yet efficient. For close work in rows. Adjusts to operator's height. 6-ft. ash handle; standard 9 ¾-in. bushed wheel; tool steel blades 6 to 14 ins. wide. Weight, 10 lbs.

**FULLER  
WHEEL HOE CO.**  
So. Hamilton, Mass. Catalog

### Rubber Budding Strips

Gauge	Width	Length	Per lb.	Per lb.
.010	3/16-in.	4 ins.	10 to 50 lbs.	109 lbs.
.020	3/16-in.	4 ins.	1.40	1.20

Write for prices on larger quantities.

WAYNESBORO NURSERIES  
Waynesboro, Virginia

plantings down to normal. Overproduction results from overplanting, and this usually happens in periods when prices are high."

#### Weather Cuts Demand.

Although last year's volume of sales was surpassed, the cold and wet weather cut demand so that a considerably increased sales budget could not be met this spring, according to Charles S. Burr, president of C. R. Burr & Co., Manchester, Conn., who writes:

"Old Man Weather surely took our spring, 1947, demand for a sleigh ride. He did everything but bring sufficient snow to make the sleighing easier. Our guess is that the weather cut our demand twenty to thirty per cent. Although we did not meet our considerably increased sales budget, our wholesale sales were in excess of last year's.

"In a few spotty locations some of our customers, we believe, suffered considerably. But the majority of them sold out pretty well because of the limited amount of stock available last spring.

"Total labor costs were in excess of last year's. In order to attract a type of help to do a better job, we had to make some substantial raises in pay rates. We believe this action has proved to be correct, because we are beginning to see a ray of hope in better output per man-hour. We believe future success necessitates more efficiency, for certainly we do not feel that we can reduce costs by lower hourly rates.

"As to prices another year, there may be some slight spotty softening.

"After checking the growing costs and short supply, we think evergreens may show some increase in prices throughout the trade. Probably few, if any, of us are fully aware of the cost over the many years that it takes to propagate, grow and dig evergreens.

"The wetness of the season did make for good stands in lined-out stock. Equally fortunate from the operating standpoint was the fact that much of our precipitation was on week-ends and during the night, so that we did not lose much time in the fields and our plantings were completed on time. Our stock looks good, particularly our roses.

"Four factors that are highly important to us are good productive land; mechanization; closer supervision of growing, grading and shipping, and determining what we can grow best competitively and profitably that will be in demand.

"The future demand is dependent upon our own increased sales efforts,

**RA·PID·GRO**  
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BIGGER AND BETTER FLOWERS...  
FRUITS... VEGETABLES...



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healthy stock.**

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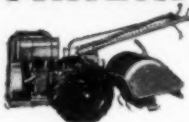
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CAPACITIES 14 IN. TO 7  
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general economic conditions, building and, last but not least, the trade promotion program of the American Association of Nurserymen."

#### Shortages in Maryland.

C. Willard Stoner, office manager of the Westminster Nurseries, Westminster, Md., reports that shortages of both labor and stock have prevented complete filling of orders received. He writes:

"Our location is twenty-eight

#### HIS CLIENTS ARE PLEASED



"Very successful year in my landscape business... clients well pleased with designs... thank you for bringing your wonderful course to my attention."—J. W. Seaman, Pa.

Many a man has moved to higher places, has become a more valuable employee—with this practical, 8 to 12 months' home study course. Nursery owners whose men know landscaping increase their services to the public—and their profits.

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Francis A. Robinson, president, is a partner of Robinson & Parnham, member of American Association of Nurserymen; in active professional landscape practice for 36 years.

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2 to 19 bags.....\$1.65 each  
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Bargain prices on bulk cars, truckloads or bagged cars. Prices F.O.B. Capac, Mich.

**AMERICAN SOIL SPONGE SELLING CORP.**  
267 Fifth Ave. New York 16, N. Y.

miles northwest of Baltimore and sixty miles northeast of Washington. Both of these cities, through direct retail sales, jobbers, small nurserymen and our own landscape department, afford us the majority of our outlet of nursery stock. However, in addition, we cover an area of seventy-five miles around our nursery. We also do considerable shipping, both retail and wholesale. Our gross sales

JULY 1, 1947

47

are on a par with the spring season of 1946, although we were very short in supply on many items and stock, depleted especially among the larger sizes of upright yews and Canadian hemlocks, which are much in demand.

"We found it necessary, in many instances, to turn down orders because of the lack of stock and the lack of necessary experienced labor. Our labor situation has not improved, and we have a high rate of turnover of personnel among new employees. Our older men are steady and are doing a good job. We find the demand for plant material in both the wholesale and retail markets to be excellent, far better than we had anticipated.

"Looking forward to the next two years, in view of the heavy drain on finished stock, we can see nothing but shortages in the better types of plant material until the younger stock now growing in the field has an opportunity to grow to salable size. We do not anticipate any price reductions for the fall season of 1947. In many instances we have, because of the lack of plant material, recommended substitution of available varieties, which have been accepted in most cases.

"We propagate the majority of our own lining-out stock, and our schedule has been increased by twenty-five to thirty per cent for the past two years. It is our present plan to cut back on certain varieties next year. We are looking forward to good business continuing for the next two or three years, possibly longer, depending upon trends of the times. We are constantly receiving requests for landscaping, especially, over and above our ability to render service."

A NEW range of Lord & Burnham greenhouses, with oil heat, has been erected at LeCouteur's Nursery, Fredericksburg, Va.

JOE TALAGO has opened Joe's Nursery, on eighteen acres at Bridgeport, W. Va., and will operate a nursery and landscape business.

DAVID W. TOUSE, a landscape architect, is establishing a perennial nursery, to be known as David W. Touse Nursery, at Jackson, Mich.

MR. AND Mrs. Henry Carter, of Carter's San Fernando Nursery, San Fernando, Cal., last month attended the graduations of their son from Oregon State College, Corvallis, Ore., and of their daughter from Leland Stanford University, Palo Alto, Cal.

## AUTOMOTIVE TREE MOVERS



The above is a picture of one of our 7-foot Rocker Type Tree Movers, owned and operated by the Laur Shade Tree Service, St. Louis, Mo. The tree is a large sugar maple weighing slightly more than five tons. This is the third mover purchased from us by this company.

On short hauls it is possible to move five or six big trees within a day's time. We can use this mover as a crane to load trailers or other trucks for longer hauls.

Place your order early so that you will not be disappointed as all steel stocks are scarce and our production is limited. Write for further information.

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 "SINCE 1840"  
 and all of the best

Need we say more? It has always been our aim, and always will be, to supply the required needs with the best twines the market has to offer.

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For chlorosis due to  
 Iron deficiency.



Does not contain  
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**SCHUYLKILL CHEMICAL COMPANY** Dept. J 2346 Sedgley Ave.  
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## PLANT NOTES.

[Continued from page 20.]

of showy yellow crossflowers from May until July (usually longer, if seeds are not allowed to develop). The latter is a hardy annual, growing to a height of fifteen or eighteen inches, with deep orange flowers over a long period, the beginning depending upon when the growth starts and the end depending upon moisture and upon how religious one is in keeping the old flowers picked off. Both plants are noticeably fragrant, although less so than wallflowers.

**Thalictrum Rochenbrunianum.**

Two or three of the 1947 plant lists carry a plant, *Thalictrum rochenbrunianum* Lavender Mist, that has me puzzled, because it is, according to the catalogs, from Bulgaria, while the type *rochenbrunianum* is from Japan. Be that as it may, the plant that I had under that name several years ago from an Austrian botanical garden is a really good garden ornament and a splendid cut flower; so I bespeak great popularity for it with these national advertisers behind it.

As it grew here, it became thirty or more inches tall, with the leaves bipinnate to ternate and glaucous —lovely as meadow rue foliage generally is. Even the foliage and airy habit of a *thalictrum* are enough for me, but the pretty lavender flowers of this one, borne profusely in panicles above the foliage mass, make it an especially attractive garden ornament and not to be despised as a cut flower. It did best here in about half-shade in a soil rich in leaf mold. It is easily grown from fall-sown seeds.

**Linum Alpinum.**

A technical point raised by a correspondent two or three years ago regarding *Linum alpinum* has caused me to keep a sharp eye on gardens and nurseries since then to see the plant's behavior under different growing conditions. The result has been that I am convinced there are fewer true *alpinums* than is generally supposed and that soil has much to do with what we get out of the real thing. Without going into such technical matters as petals overlapping their entire length, which botanists give as a distinguishing mark setting it apart from *L. perenne*, and the hirsute stamens connected to form a tube at the base, let us consider for a moment what different soil will do for the plant.

I know a rock garden where *L. alpinum* is made much of because of its



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long-blooming habit and lovely lavender-blue color. There is nothing unusual about that, because all gardeners who know the plant at all grow it for the same reasons. But this is the point: This garden has a naturally rich soil and it has been further enriched through the years by the addition of leaf mold, composts and manure. As a result, *L. alpinum* grows to twenty inches in height and is not distinguishable from *L. perenne* to the casual observ-

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THE DOW CHEMICAL COMPANY  
MIDLAND, MICHIGAN

er. Again, I know a garden built on the sterile soil of Lake Michigan where *L. alpinum* remains its true elfin self of six or eight inches and is then one of the most satisfying of alpine. The moral is apparent: If one wants the plant to keep in character, give it a soil decidedly on the lean side, preferably, I think, made up mainly of sand or gravel; if a tall plant is wanted, then one should procure *L. perenne*, for it is easier to

come by and easier to keep going once one has it in the garden.

#### Gay-feathers and Ruta.

During the years that I have been an observer of the horticultural scene, it has been interesting to watch the fluctuation in popularity of the gay-feathers. It usually happens, according to my observation, that a beginner in gardening immediately falls in love with the gay-feathers, especially the willowy plumes of *Liatris pycnostachya*, as soon as he sees them. And then his ardor cools as he becomes more sophisticated and the spell of pastel shades comes over him. Finally, remembering the usefulness of his old friends, he casts about for ways to use them without offending his new-found fastidiousness. And one of the better ways of doing that, as I have seen the attempts made, is to interplant the gay-feathers with the herb of grace, *Ruta graveolens*. The quieting influence of the latter's blue-gray foliage tones down whatever harshness the other may possess and also furnishes a season-long, pleasing picture in itself.

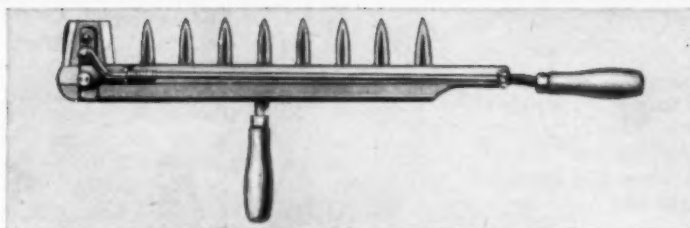
#### The Glacier Pink.

A reader writes under date of May 26 that he has just ordered seeds of *Dianthus glacialis* from Europe and asks for a few words on culture. Because the answer, as I propose to make it, would be overlong for a personal letter and these notes will be published long before his seeds arrive, it is given here with the thought that it may help others. First, though, let us consider the name, for there seems to be much confusion there.

The reputation of *D. glacialis*, as one follows it through the literature of the past century, would lead to the conclusion that it is an incorrigible little miff. Thus, Mrs. Wilder, to whom many American rock gardeners look for their instruction and inspiration in alpine matters, said it "resisted my most ingratiating advances and callously passed into the beyond under my imploring gaze." I suspect that she had a pink that I once had as *D. glacialis* and thought, because it was so prevalent in gardens as that species, it was the true thing. It was a cantankerous little mite (perhaps it was a geographical form of *D. glacialis*, but I cannot say now because I failed to keep a pressed specimen for comparison) that I never could satisfy. But I do know that it was not true *glacialis*. The true plant has been in this garden three or four times during the past decade, all from European seeds from

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Write for Bulletin.

as many sources; so I suspect it may be more generally available now.

If the inquirer receives a plant that makes tiny tufts of obtuse green radical leaves, from which spring unbranched 4-angled stems to a height of two or three inches, each stem bearing a single inodorous rosy flower, yellowish on reverse of the petals, he will probably find it easy to manage in any light soil, be it acid (as all the books say for *glacialis*) or otherwise. And if the climate is hot, he will find the plant will enjoy life more if it is given a little filtered shade during the middle part of the day. It should be remembered, though, in buying pinks, that much confusion reigns therein and that seems to be especially true when one reaches D. *glacialis*. Personally, there are several small pinks that I like better than *glacialis* or D. *gelidus*, which is a notorious usurper of the former's name, but that is another story. All these small pinks come readily from seeds, and *glacialis* does well here under the conditions named. It might be well to add for the inquirer's benefit that plants produced from seeds at the time he will receive his no doubt would be better off if left in a frame over their first winter.

### INSECTICIDES SHORT.

Insecticides are unlikely to be in adequate supply this year, according to a review of the chemical industry contained in the May issue of the Chemicals and Drug Industry Report, released by the Department of Commerce.

Moreover, the chemical industry's output generally is insufficient to supply all industrial requirements despite the continued high level of operations, the report states.

The upward price trend in the industry has not yet subsided.

Containers are in critical supply, and the boxcar situation is far from normal.

Arsenicals are in a tight position. The situation in copper sulphate is presently good. Stocks of rotenone are low, but receipts from South America will meet essential requirements. Pyrethrum stocks are ample, but nicotine and paradichlorobenzene continue light. DDT production has not caught up with demand.

Freon-12 will not be available for the manufacture of aerosol bombs until further notice. Petroleum oil sprays will meet demand. Materials for the production of household insecticides, except DDT, are in good supply.

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